

Revised and Updated from
Access to Parks Guidelines

January 2005

CALIFORNIA STATE PARKS

Accessibility

Guidelines

**Accessibility Section
Acquisition and Development Division**



These guidelines are intended to convey to State of California, Department of Parks and Recreation staff general information regarding accessibility standards and recommendations for complying with laws and regulations related to accessibility. These guidelines are not a substitution for legal advice. Any specific legal issues or problems should be referred to legal counsel. Furthermore, the State of California, Department of Parks and Recreation takes no responsibility for reliance upon these guidelines by any person or entity. All persons and entities should independently confirm standards, recommendations, laws, and regulations related to accessibility.

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Our Vision

Universal accessibility is integrated into the Department's culture and embodied in its programs, providing visitors, regardless of their abilities, with high quality recreational opportunities while preserving the integrity of park resources.

Our Mission

To provide direction, leadership, encouragement and facilitation toward universal accessibility to maximize park visitor opportunities.

Introduction

The California State Parks Accessibility Guidelines presents principles for providing accessibility in State Park settings. It is intended for practical use in the field for use in regular maintenance duties, construction projects, and to understand and review the work of outside contractors. Towards this end, the document is designed as a reference manual that can be used with flexibility to accommodate unique situations and settings.

The Guidelines embody a compilation of accessibility standards, recommendations and regulations for compliance with accessibility laws. California State Parks began the process of developing the California State Park Accessibility Guidelines in the late 1980s. The first edition was published as “Access to Parks Guidelines” in 1994 and subsequent revisions have incorporated more comprehensive and up-to-date material.

These Guidelines are intended for use throughout California State Parks. Many sections relate to the physical environment and serve as a resource for planners, designers, contractors and maintenance staff. There are also sections that apply to programs and presentations that serve to inform rangers, interpreters and volunteers.

The Guidelines correspond to the Department’s access surveys, which were revised in early 2000. The Guidelines are the primary tool provided by the California State Parks Accessibility Program to accomplish its mission of providing guidance in creating universal access to California State Parks.

Park Accessibility

Natural settings are different than urban settings. The urban environment is mostly built and can be “controlled” by design, while parks are both built and nature-based. In fact, people come

to State Parks primarily to experience nature, so in the parks the built settings must be designed to fit into a natural environment without destroying the experience people are coming to enjoy. For this reason it is not always desirable to create settings that appear too over-built or over-designed.

The challenge for park designers, managers, rangers and maintenance staff is to understand what people of all abilities need to facilitate the use of the park without compromising the qualities of the natural or cultural resource. The concept of individual choice based on the desired degree of challenge must also be addressed. For example, a trail through a redwood grove may be the desired experience. Some people want a very challenging hike through the redwoods while others just want to stroll through a beautiful natural setting. Therefore, unlike an urban pathway the trail is not merely a means of access to a place or activity; it is the place and each type of experience visitors have creates the program of that place.

Accessibility, as used throughout these guidelines, is defined as "the combination of various elements in a building or outdoor area, which allows access, circulation and full use of the building, facilities and programs by persons with disabilities." (*CBC-202.A*) While accessibility is a defined, prescriptive set of standards and measurements that don't change in content from setting to

setting, the design challenge in park settings remains—basic services and experiences need to be accessible to all people with disabilities, while maintaining the intrinsic qualities of the place.

Programs and Facilities

These guidelines are intended to ensure that all programs and facilities available to the public shall be accessible for the use and enjoyment of persons with disabilities. In California State Parks and its concessions this shall include, but not be limited to:

- Amphitheaters/Gathering places
- Audiotapes
- Beaches/Shores
- Cabins/Lodgings
- Camping/Picnicking
- Drinking fountains
- Equestrian facilities
- First aid stations
- Fishing
- Food/Dining facilities
- Entrance stations
- Historic sites and facilities
- Information stations
- Interpretive programs
- Living History programs
- Marinas
- Museums
- Offices/Kiosks/Parking
- Paths/Trails
- Public transportation
- Restrooms
- Shops and stores
- Swimming

Telephones
Visitor centers
Volunteer/Docent programs

- “Regulatory Negotiation Committee on Accessibility’s Guidelines for Outdoor Developed Areas (99 AG)”

Source Materials

The guidelines are, in essence, a summary of the Federal and State accessibility regulations set forth by the Americans with Disabilities Act and California’s Title 24 building codes (the most comprehensive accessibility code in the nation). If questions or clarifications are required beyond this document, refer to the primary source documents listed below and confer with the California State Parks Accessibility Section.

The three primary sources for the guidelines are:

- California Code of Regulations (CCR), Title 24 (T24), part of the California building code (CBC), including
 - California Electrical Code (CEC)
 - California Plumbing Code (CPC)
 - California Historic Building Code (CHBC)
- Americans with Disabilities Act Accessibility “Guidelines for Buildings, Facilities and Outdoor Recreation” (ADAAG) which includes the “Accessibility Guidelines for Recreation Facilities,” June 2003 (03 AG)

Deviation from Guidelines

These guidelines are a summary of the most current regulations and represent the accessibility standards of the Accessibility Section of California State Parks. For more information on a particular guideline or standard, the Source Material documents may be consulted.

The California State Parks Accessibility Section recognizes that deviations from standards may be necessary from time to time due to the environmental conditions and unique constraints of a particular site. In these cases, the Accessibility Section should be contacted for guidance and direction at (916) 445-8949, or e-mail: access@parks.ca.gov. For more detailed information about the project review process, refer to the Project Review Process Section on page xix.

Updates

The Accessibility Section will periodically update these guidelines as regulations change. All users should send written corrections, suggested changes and additional comments to:

California State Parks
Accessibility Section
One Capitol Mall, Suite 500
Sacramento, CA 95814

Introduction

The Accessibility Section is available to answer specific questions and provide technical assistance regarding issues at individual sites.

For accessibility questions or to receive this publication in an alternate format, contact the Accessibility Section at (916) 445-8949, or e-mail: **access@parks.ca.gov**

Department Policy and Practices

California State Parks has many policies and practices that are mandated to ensure that all citizens have access to

park facilities and programs. The Department's accessibility policies include:

ACCESSIBILITY POLICIES	DESCRIPTION
Accessibility Program Policy DAM 1400, DN1995-32 November 8, 1995	It is the policy of the Department to meet the recreational needs of all the people of California and to provide an accessible environment in which all visitors to the State Park system units are given the opportunity to understand, appreciate and participate in the State's cultural, historical and natural heritage.
Accessible Campsite Policy DOM 1400, DN 1997-22 June 9, 1997	It is the policy of the Department to establish consistent and uniform statewide guidelines that all park units will follow to ensure that accessible campsites are available for park visitors with disabilities, while maximizing campground occupancy.

continued on following page

Department Policy and Practices

ACCESSIBILITY POLICIES	DESCRIPTION
<p>Accessibility and Historic Structure Policy DOM 1400 DN 2005-03 February 2, 2005</p>	<p>This Departmental Notice establishes a policy to ensure that the public access to the Department's historic properties complies with the law. Further, this notice provides standards, guidelines and the process to follow throughout the Department in order to provide compliant access while preserving historic fabric.</p>
<p>Accessibility and Publications Policy DOM 1800 DN 2000-07 October 19, 2000</p>	<p>This Departmental Notice establishes a policy to ensure that the Department's publications comply with the law and also establishes clear standards to follow in producing accessible publications throughout the Department. In addition to being accessible, publications must provide accurate information about accessible facilities and programs.</p>
<p>Use of Qualified Sign Language Interpreters DOM 1800, DN 2001-04 DN 2004-07 (Revised September 2004)</p>	<p>This policy of the Department of Parks and Recreation requires Departmental staff to provide a Qualified Sign Language Interpreter.</p>
<p>Accessibility Comment/Complaint Policy DAM 1400 DN 2001-04 March 28, 2001</p>	<p>This policy of the Department of Parks and Recreation is to ensure that people with disabilities are treated with dignity and respect and are free from discrimination while visiting California State Parks. The Department has established procedures to give persons with disabilities the opportunity to make comments or file discriminatory complaints against State Park System units that have not complied with ADA.</p>

Following are the specific departmental and suggested accessibility references, other than this document, that park staff can consult when needed:

DEPARTMENTAL REFERENCES

- “All Visitors Welcome—Accessibility in Interpretive Programs and Facilities.” Department of Parks and Recreation, 2003 version.

SUGGESTED REFERENCES

- “CalDAG—California Disabled Access Guidelines 2000.” Michael P. Gibbons, 2000.
- “California Accessibility Reference Manual; Volume 1—Accessibility Statutes, Accessibility Regulations.” State of California, Division of the State Architect, Access Compliance Unit, July 1999.
- “California Historical Building Code—1998.” California Building Standards Commission.
- “Everyone’s Welcome.” American Association of Museums, 1998.

- Lighthouse International—
http://www.lighthouse.org/color_contrast.htm
and http://www.lighthouse.org/print_leg.htm.
- “Means ADA Compliance Pricing Guide.” Adaptive Environments Center, Inc. R.S. Means Engineering Staff, 1994.
- “Preserving the Past and Making it Accessible for People with Disabilities.” National Park Service, Cultural Resources Preservation Assistance Division, 1992.
- “Smithsonian Guidelines for Accessible Exhibition Design.” Smithsonian Institution, The Accessibility Program, 1996.
- “Universal Access to Outdoor Recreation—A Design Guide.” PLAE Inc., Berkeley, CA and U.S.F.S., 1994.

Building Blocks for an Accessible Park

The California State Parks Accessibility Guidelines cover standards for particular features in the park environment. These park features should be integrated into an overall park site plan and be considered as part of a larger planning process for accessibility. Site planning is important to the process of providing access to all programs and services that the park offers. Each site shall be planned as a whole to form a well-integrated, accessible network of facilities and programs.

The goal is to provide all visitors optimum experiences through individual choice. For example, if camping or picnic areas provide some sites in the sun and some in the shade or some overlooking a lake, accessible sites should be developed in each location, with a path of travel connecting each, rather than offering a limited selection. Partial accessibility does not provide for optimum experiences through individual choice.

Remember that all new or renovated elements in the park must be made accessible to all people even if there is no guideline that addresses that specific feature. In cases where there are no guidelines, contact the Accessibility Section for assistance.

CIRCULATION

No program or facility can function independent of its linkage to the natural, social and physical environment to which it belongs. Similarly, no program or facility can be accessible by itself. If a park provides major programs in different areas, accessible circulation must be provided to connect each of these areas, facilities and activities, rather than restricting visitors with disabilities to using only selected areas and programs.

Building Blocks for an Accessible Park

There are three types of circulation that can provide accessibility:

1. **Exterior Route of Travel and Accessible Route of Travel:** General terms describing a continuous, unobstructed path connecting accessible elements and spaces in a building or between exterior elements of a facility. Exterior and Accessible routes are safe and usable by persons with disabilities, including pedestrians and visitors requiring the use of mobility devices. These paths or routes may include walks, sidewalks, ramps corridors, and other such improved areas.
2. **Outdoor Recreation Access Route:** Paths that connect and provide access to elements within a picnic area, camping area, or designated trailhead.
3. **Trails:** Paths that provide access to a site's remote settings and recreation activities. Trails enhance the visitor's experience of natural and cultural features of a site, allowing varied levels of accessibility without negatively impacting the recreational activity or resources.

Parks must provide accessible circulation that connects accessible features within a park so that a visitor with a disability can enter the park, get to and utilize restrooms and facilities, and take part in the programs available (visitor center, picnic area, campgrounds, etc.).

The basic dimensions required for accessibility are provided within these guidelines.

SPACE ALLOWANCES

When designing for all people, the anthropometrics and spatial requirements are different from those historically used in design. Universal design takes into account the fact that people come in a variety of shapes, sizes, abilities, disabilities, and ages. When planning and designing, using widths, lengths and dimensions that accommodate a wide range of people assures access to recreational facilities and programs for all visitors. The basic spatial dimensions necessary to accommodate people who use wheelchairs, mobility aids, or who have visual impairments form the basis of the Guidelines.

Typical space allowances for accessibility that you will find throughout the Guidelines include clear ground or floor space, the minimum dimensions required for an adult using a wheelchair, and the passing widths and turning requirements for that person.

REACH RANGES

The “reach range” refers to the maximum and minimum heights that a person in a wheelchair can reach in the forward and side directions. Objects that can be reached (such as exhibit buttons, telephones, Braille signs,

grills, hose bibs, etc.) need to be positioned within the appropriate reach range to be accessible to people in wheelchairs. The two types of reach ranges are in the “forward” and “side” directions. A person has a greater reach range toward the side than in the forward direction, so the ranges differ.

OBSTACLES, HAZARDS, AND CLEARANCE

In recreational settings it is often desirable to retain the natural features and character of a place through aesthetically appropriate design. This must be done in a way that also provides safe maneuvering and access. To maximize clearances and minimize hazards, projections, protrusions, and gratings or openings in the clear ground or floor space need to be carefully considered.

COMMUNICATION

Physical access is only one form of access to parks. Making park programs accessible requires making communications accessible. Parks that offer

visitors physical access to programs and facilities cannot be considered fully accessible unless the staff can effectively communicate with visitors with disabilities. Interpretive programs, nature walks, campfire talks, films, and other special programs will be made available to everyone through alternative formats, such as sign language, Braille, oral description, and captioning. These are described in the guidelines that follow. For additional detailed information about how to make communication accessible, refer to the California State Parks document, “All Visitors Welcome — Accessibility in Interpretive Programs & Facilities” and the Department’s Qualified Sign Language Interpreters policy.

These basic building blocks (clear widths, reach ranges) for accessibility appear throughout the guidelines and must be considered when designing or maintaining State Park settings. The following sections outline requirements for specific typical park features.

Project Review Process

All projects within State Parks must have an accessibility review to determine if there are access issues. The Accessibility Section must be involved in the planning stages of projects to ensure that access is integrated in a universal way, so that State Parks can provide all visitors, regardless of their abilities with high quality recreational opportunities, while preserving the integrity of park resources.

To obtain a “Project Evaluation Form” (PEF) and a current copy of the official “Project Review Process Guidelines,” contact the Accessibility Section.

California State Parks
Accessibility Section
One Capitol Mall, Suite #500
Sacramento, CA 95814
Telephone: (916) 445-8949
E-mail: access@parks.ca.gov.

Do not assume there are no access issues involved in a project unless the Accessibility Section review staff has exempted it. It is your responsibility to contact the Accessibility Section by phone or email when you begin work on any project, including design, planning, interpretive, engineering, trail, or construction projects.

ACCESSIBILITY SECTION PROJECT REVIEW PROCESS

I. Project Planning

Planning for access for people with disabilities needs to take place at the very early stages of a project. Project Evaluation Forms (PEF) and Concept Papers would be the appropriate phases to include the Accessibility Section’s project review staff. A simple phone call to discuss the project will allow the review staff to log the project into the database to document the project review. Early review will determine if

Project Review Process

the access features in the project have been adequately addressed and/or if subsequent reviews will be necessary.

This stage of review will identify all issues with physical alterations required for access compliance often associated with qualified historical properties and outdoor environments.

II. Preliminary Design and Construction Documents

Many projects will need to be reviewed at the intermediate stages of preliminary plan design, design development and construction documents. The complexity of the project and schedule will vary. As a result, the level of completeness for the intermediate stages of preliminary plan design review submittal will vary. Design review submittals should take place at:

- 1) schematic/preliminary design,
- 2) design development / 30% construction documents and
- 3) 70% completed construction documents.

III. Plan Review and Certification

Consistent with the agreement with the Division of the State Architect (DSA), approved and certified documents must demonstrate that the project will com-

ply with current accessibility codes, regulations, and guidelines. The Accessibility Section of California State Parks will review all projects to ensure compliance. All approved plans will receive a certification stamp, dated and signed by an Accessibility Project Review architect or by DSA, depending on project cost.

IV. Construction

As a condition of our agreement with the Division of the State Architect, "Construction Verified Report" forms need to be submitted. These forms report and assure that contractors have correctly installed the accessible features. During the construction of projects and at the completion of a project, the project manager should notify the Accessibility Section so that a verified report can be completed, certified and submitted to complete the project files. This document should also be kept with the official project file.

V. Trail Planning

In trail planning projects the following steps should be completed to coordinate review of a trail project by the Accessibility Section to assure compliance with current regulations and integration into the statewide accessible trail program.

1) Contact the Accessibility Section Trail Coordinator to discuss the trail project, determine the potential level of accessibility and evaluate the trails inclusion in the statewide accessible trail program.

2) Submit PEF or Notice of Exemption with detailed project description, maps showing connections to other trails and to trailheads, and photographs to the Accessibility Section Trail Coordinator.

3) If the Accessibility Section Trail Coordinator determines that the trail qualifies for a departure from the current guidelines, a detailed explanation of the reason for this departure from the guidelines is required. Photographs and topographic maps would be helpful in supporting the reason for departure.

VI. Exhibit Design

In addition to architectural review of construction documents, interpretive accessibility reviewers will evaluate exhibit design specifics. This may include but is not limited to: fonts, contrasts, clarity of content and layout, controls and interactive elements, and mounting and location details. Timing of such reviews is to be arranged.

Alarm Systems

I. CONCEPT

A. Alarm systems must be accessible to people with visual and hearing impairments. The State Fire Marshall must be contacted for all existing, new, and retro-fit system requirements.

B. For program accessibility requirements that may require visual or audible alarms absent any construction, contact the Accessibility Section.

B. Where audible alarms are installed, visual alarms must be provided. They are to be flashing white strobe lights located 6" below the ceiling or 80" above the floor (whichever is lower) and must be positioned within 50' of all locations in rooms, including restrooms (**Figure 1-1**).

ADAAG-4.28.1-3/CBC-1114B.2.4

II. GENERAL

A. If provided, audible emergency alarms shall produce a sound that exceeds the prevailing sound level by at least 15 dbA. Sound levels for alarm signals shall not exceed 120 dbA.

ADAAG-4.28.2

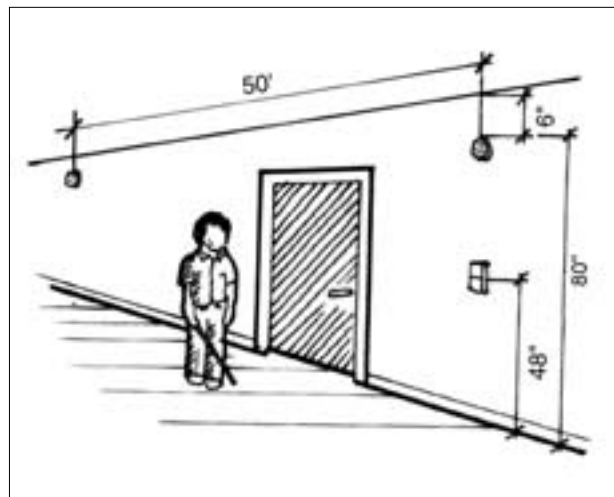


Figure 1-1

Alarm System

C. Fire alarm pulls are to be centered at 48" above the floor (**Figure 1-1**).

*CEC, Part 3, CBC, CCR, Article
760-16*

D. Fire alarm pull stations shall be accessible and operable without tight grasping, pinching, or twisting of the wrist.

ADAAG-4.27.4

Assistive Listening Devices (ALD's)

I. CONCEPT

A. Assistive listening devices are used to help individuals hear the programs that State Parks provides. These devices may be either permanently installed or portable. Permanent systems are generally installed for specific areas while portable systems allow use for walking tours or similar activities. Typical areas in the parks where assistive listening devices will be used are assembly areas, meeting rooms, campfire centers, visitor centers and museums.

B. The type of assistive listening device should be selected for the appropriate application. For example, in a room where fluorescent lighting is used, the ballasts can cause interference with infrared systems. Infrared may be appropriate for interpretive centers with audio/visual presentations but not functional in outdoor settings without clear lines of sight.

C. With any system, staff must be trained on system use and maintenance.

II. GUIDELINES

A. Assembly areas, conference and meeting rooms shall provide assistive-listening systems for persons with hearing impairments.

CBC-1104B.2

1. The minimum number of receivers to be provided shall be equal to 4% of the total number of seats, but in no case less than two.
2. Types of ALD's include, but are not limited to, audio-induction loops, radio frequency systems and infrared transmission.

Assistive Listening Devices (ALD's)

3. If the ALD provided is limited to specific areas or seats, then such areas or seats shall be within a 50-foot viewing distance of the performing area.
4. If portable ALD systems are used for conference or meeting rooms, the system may serve more than one room. However, permanently installed ALD systems are required in areas if (1) they accommodate at least 50 persons or they have audio-amplification systems, and (2) they have fixed seating.

III. SIGNAGE

A. A sign shall be posted in a prominent place indicating the availability of the ALD. The sign shall include the ISA for hearing loss and wording that states "Assistive Listening System Available" (Figure 2-1).

B. Information regarding the availability of ALD's should also be included on brochures and announcements for special programs.



Figure 2-1

Audio-Visual Programs

I. CONCEPT

A. Audio-visual programs are informational, educational, entertaining programs that are transmitted by auditory and/or visual means. This includes, but is not limited to, audiotapes, sound systems, videotapes, films, slides and interactive audio/video displays.

B. Audio-visual programs are required to be presented and available from accessible locations.

C. Audio-visual programs are required to be accessible to persons with disabilities. Appropriate auxiliary aids and services, such as qualified sign language interpreters, shall be made available to communicate with people who are deaf and hard of hearing. (See departmental notice, DN2001-04)

II. ALTERNATE FORMATS

A. Alternative means of presenting audio and visual program information shall be available.

1. Auditory information must also be provided in print, captioned video, or graphic visual form.
2. Visual information (films, videos, slides, printed publications, etc.) must have alternatives such as large print descriptive narration/audio description, descriptive audiotapes, electronic media usable with screen readers, Braille, etc.

B. Audio-Video Program Alternatives

1. Captions must be provided for existing videos and other audio-visual programs.

Audio-Visual Programs

- a. Close-captioned video requires a decoding monitor to display text on the screen.
 - b. Both open-captions and Computer Assisted Real Time Captions (“CART”) show the dialog on the screen all the time.
 - c. Until captions are provided, a written program transcript must be available as a handout. Electronic transcripts provided for home use should be usable with most screen readers.
 - d. When existing videos contain visual elements critical to understanding the material, cassette or CD equivalents of videos that include audio description may be created – if feasible – until new synchronized audio described videos are available.
2. All new video programs that contain visual information necessary for the comprehension of the content must include audio description.
- a. Key visual elements such as settings, actions, costumes, scene changes and

facial expressions critical to understanding may be described and inserted into pauses in soundtracks.

- b. Audio descriptions of the above elements must be synchronized to a film as it is projected and then transmitted to an FM receiver headset or other receiver.

III. ACCESS FOR PERSONS WHO ARE DEAF OR HARD OF HEARING

A. Speakers must allow extra time between slides for visitors with hearing impairments to see the images that have been described. They may be lip reading, or watching the sign language interpreter.

B. If the room is too dark, a spotlight on the speaker and/or sign language interpreter may also be necessary.

C. A system for requesting sign language interpreters with advance notice must be established at all locations and communicated to the public. (See DN2001-04)

IV. REFERENCES

A. For additional information, refer to the California Department of Parks and Recreation Qualified Sign Language Interpreters Policy and All Visitors Welcome, a California State Parks publication.

Bathing Facilities

I. CONCEPT

A. Where facilities are provided for each gender, accessible facilities shall also be provided for each gender. Where facilities for bathing or showering are provided, at least one such facility, and no less than 1% of all facilities, shall conform to the following standards.

CBC-1115B.6

B. Where, within the same functional area, two or more accessible showers are provided, there shall be at least one shower constructed opposite hand from the other or others (i.e., one left-hand controls versus right-hand controls).

CBC-1115B.6.2.3

C. See Title 24 of the California Building Code for full requirements.

II. COMPARTMENT SHOWERS

A. Enclosure/Stall

1. The shower stall space shall meet one of the following criteria:

CBC-1115B.6.2.1

- a. 42" wide x 48" deep with a minimum 42" opening.
- b. 60" wide x 30" deep with a minimum 60" opening.
- c. 60" wide x 36" deep with a minimum 36" opening.

2. When a threshold or recessed drop is permitted, it shall be a maximum of $\frac{1}{2}$ " in height and shall be beveled or sloped at an angle not exceeding 45°.

CBC-1115B.6.2.2

Bathing Facilities

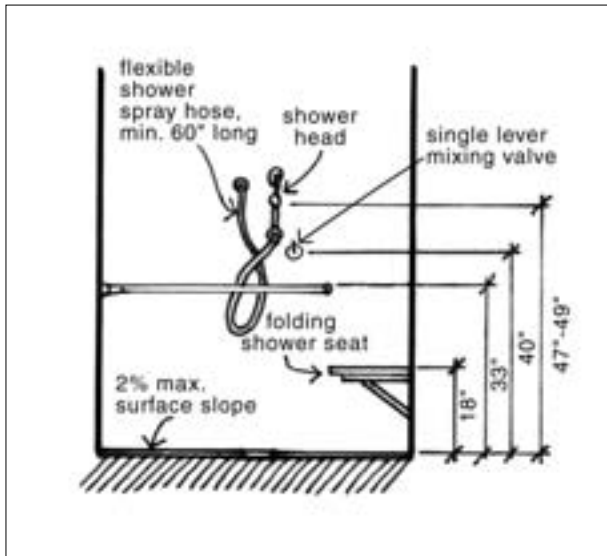


Figure 4-1

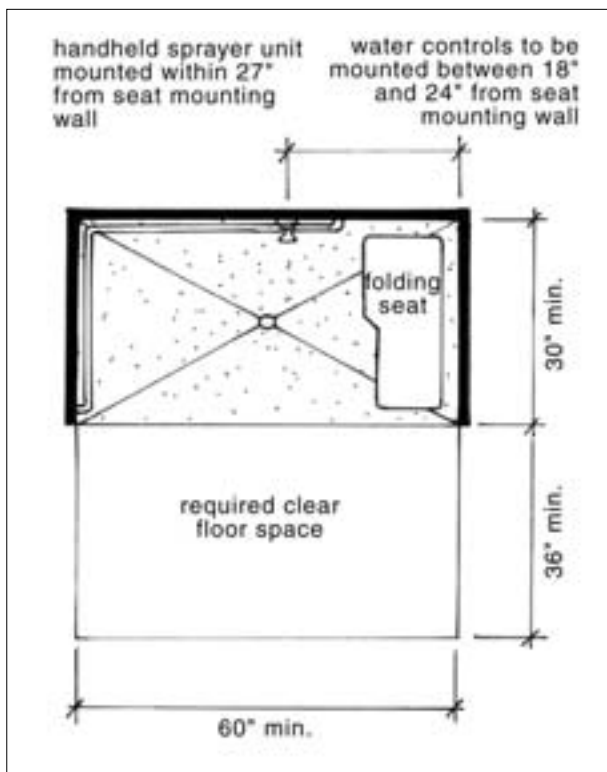


Figure 4-2

3. Wheelchair transfer onto the shower seat shall be unobstructed by the enclosure.

CBC-1115B.6.2.5

B. Shower floor:

1. Drain grate openings shall be a maximum of $\frac{1}{4}$ " wide. Drain shall be flush with the floor.

CBC-1115B.6.2.4.4

2. Maximum slope of the floor shall be 2% in any direction (**Figure 4-1**).

CBC-1115B.6.2.4.4

3. Floor surfaces shall be stable, firm and slip resistant.

CBC-1124B.1

C. Folding seat:

1. The seat shall extend the full depth of the stall (**Figure 4-2**).

ADAAG-4.21.3

2. The seat shall resist a 250 lb. force in any direction.

CBC-1115B.8.3.2

3. The seat shall be mounted 18" above the floor and within 27" of the controls (**Figures 4-1 & 4-4**).

CBC-1115B.6.2.4.5

4. There shall be a minimum 1" and a maximum of 1½" space between the edge of the seat and any wall when the seat is down **(Figure 4-3)**.

CBC-1115B.6.2.4.5.1

5. Water controls shall be located on the side wall adjacent to the seat and mounted between 39" and 41" above the shower floor **(Figures 4-1 & 4-2)**.

CBC-1115B.6.2.4.1

6. The centerline of the controls shall be within a reach range of 18" and 24" from the rear edge of the seat **(Figure 4-2)**.

CBC-1115B.6.2.4.1

7. The seat, when folded, shall extend a maximum of 6" from the wall.

CBC-1115B.6.2.4.5.1

D. Accessories:

1. Clothes hooks, if provided, should be at a maximum height of 48" without obstruction.

CBC-1115B.6.2.4.6

2. Soap dispensers shall be located on the control wall at a maximum 40" and within reach limits.

CBC-1115B.6.2.4.61

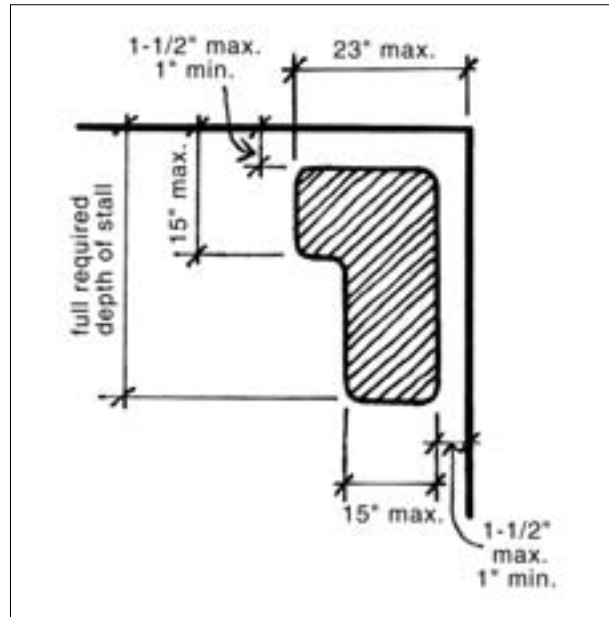
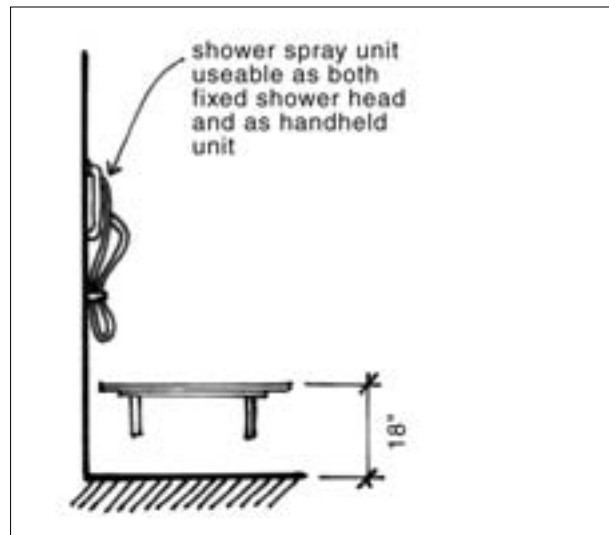


Figure 4-3



Figures 4-4

Bathing Facilities

E. Doors and Panels:

1. Doors and panels shall be substantially constructed from approved, shatter-resistant materials. Hinged shower doors shall open outward.

CBC-1115B.9.7

2. Door latch, mounted 30" to 44" above the floor, shall be flip-over, sliding or similar style not requiring grasping or twisting.

CBC-1133B.2.5.1

3. The maximum pressure required to open a door must be 5 lbs. or less.

CBC-1133B.2.5

4. If clothes hooks or shelves are provided, they must be within the following reach ranges:

CBC-1125B.3/CBC-1118B.5-6

- a. 34" to 46" for side reach over an obstruction.
 - b. 15" to 48" for forward reach.
 - c. 20" to 44" for forward reach over an obstruction.
5. The required strike edge clearance on the pull side of an interior stall door is 18" for front

approach, 24" for latch approach and 24" for hinge approach.

ADAAG-4.17.5/ADAAG-4.13.6

F. Hand-Held Shower Spray Unit:

1. A hand-held shower spray unit shall be provided, mounted between 47" and 49", above the floor and with a hose at least 60" long (**Figures 4-1 & 4-2**).

CBC-1115B.6.2.4.2

2. The hand-held shower must be useable in a fixed position.

CBC-1115B.6.1.5

3. Where accessible shower facilities are provided in areas subject to excessive vandalism, in lieu of providing the fixed flexible hose and handheld showerhead required above, two wall-mounted showerheads shall be installed. Each showerhead shall be controlled so that it can be operated independently of the other and shall have swivel angle adjustments, both vertically and horizontally. One showerhead shall be located at a height of 47" to 49" above the floor.

CBC-1115B.6.2.4.3

4. The hand-held shower spray unit should be located at a maximum

of 27" horizontal from the rear of the seat to the centerline of the mounting brackets (**Figure 4-2**).

CBC-1115B.6.2.4.2

III. WATER CONTROLS

A. Water control valves shall be located on the wall adjacent to the seat 39" to 41" above the floor (46" for open showers).

CBC-1115B.6.2.4.1

B. The maximum effort to operate controls shall be 5 lbs.

ADAAG-4.27.4/CBC-1117B.6.4

C. Controls shall be operable with one hand, not requiring tight grasping, pinching or twisting of the wrist.

ADAAG-4.27.4/CBC-117B.6.4

D. Pay coin slots shall be located at a maximum of 40" above the floor adjacent to the folding seat (**Figure 4-1 & 4-2**).

ADAAG-4.27.4/CBC-1117B.6.2.4.1

IV. GRAB BARS

A. Grab bars shall comply with the diameter, loading and projection requirements for toilets.

B. Grab bars shall be mounted 33" to 36" above the shower floor and mounted on the walls adjacent to and opposite of the seat provided in the tub/shower stall (**Figure 4-5**).

CBC-1115B.6.2.4.5.2

C. An L-shaped grab bar shall be located on the wall opposite of and adjacent to the front edge of the seat (**Figure 4-2**).

CBC-1115B.6.2.4.5.2

D. Grab bars shall be secured so they do not rotate in their fittings.

CBC-1115B.8.3.5

E. Grab bars should be 1 1/4" to 1 1/2" in diameter or width. The space between the wall and the grab bar should be 1 1/2".

CBC-1115B.8.2

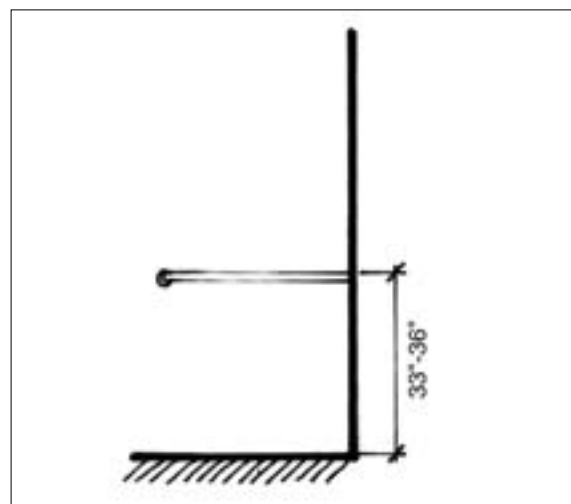


Figure 4-5

Bathing Facilities

F. Grab bar edges shall be rounded a minimum radius of $\frac{1}{8}$ " and free of sharp or abrasive elements. The wall or other adjacent surfaces shall also be free of any sharp or abrasive elements.

CBC-1115B.8.4

G. Grab bars shall be capable of supporting a 250 lb. load in any direction.

CBC-1115B.8.3

V. OUTDOOR RINSING SHOWERS

A. At each location where outdoor showers are provided, at least one outdoor shower must be accessible. In order to evaluate the accessibility of outdoor showers (e.g. beach showers) the following items will need to be reviewed and measured utilizing the appropriate portions of the restroom survey or as otherwise noted below:

1. Path of Travel:

Refer to Routes of Travel, Section 32.

- a. A minimum diameter of 60" clear space for a wheelchair to make a 360° turn (**Figure 4-6**).

99AG-16.19.1.7/CBC-1118B.3

- b. The surface must be firm, stable and slip resistant.

CBC-1124B.1

- c. The slope shall be 2% (3%

for drainage).

99AG-16.19.1.8

2. Two fixed showerheads shall be provided. One at a minimum is 72" above the ground or floor and the second between 48" and 54" (**Figure 4-7**).

ADAAG-16.19.2.1

3. Shower Controls:

- a. If valves are self-closing, water should remain on for a minimum of 10 seconds.

99AG-16.19.2-2.6/ADAAG-4.27.3

- b. The maximum effort to operate controls should be 5 lbs. or less.

ADAAG-4.27.4/CBC-1117B.6.4

- c. Controls must be operable with one hand, not requiring tight grasping or twisting of the wrist.

ADAAG-4.27.4/CBC-1117B.6.4

- d. Controls shall be located at a maximum of 46" above the floor (**Figure 4-7**).

CBC-1115B.6.6.3

4. Grab bars must be provided as follows, either:

99AG-16.19.2.3-5

- a. A vertical grab bar mounted 33" maximum above the floor to extend within 3" below the showerhead.
- b. A circular bar mounted 33" to 36" above the floor from the centerline of the showerhead shall be provided under the showerhead.
- c. A horizontal bar forming an L-shape 36" x 42", with the 36" segment of the L-shaped grab bar perpendicular to the shower mounting post as per the Grab Bar requirements in section IV, C (**Figures 4-6 & 4-7**).

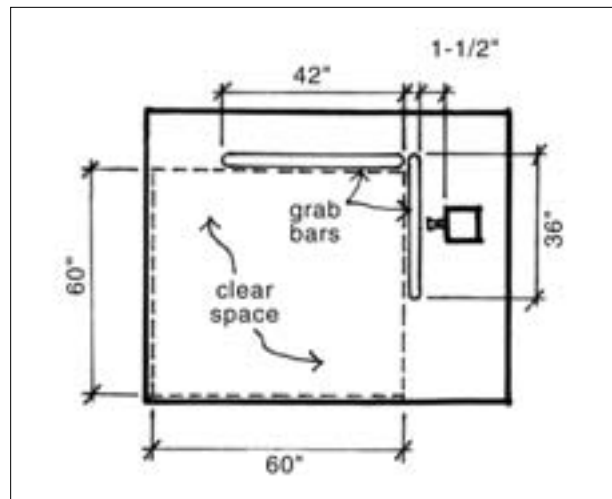


Figure 4-6

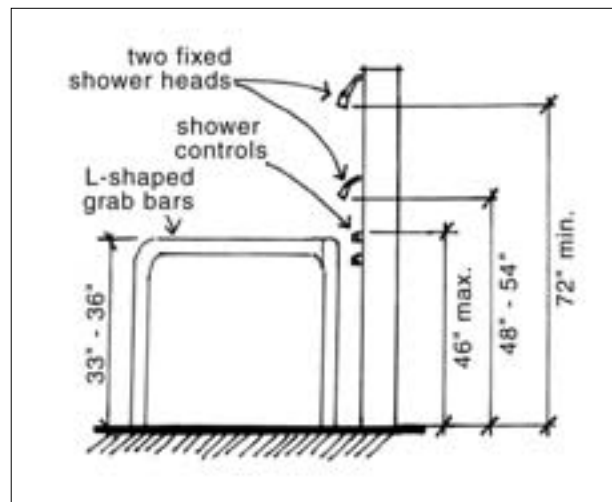


Figure 4-7

VI. SIGNAGE

A. If the shower is located in a separate facility, there must be a sign displaying the International Symbol of Accessibility (ISA) on the entry door to identify the accessible shower/bathing facility.

ADAAG-4.30.7

B. Accessible outdoor showers shall include the ISA posted at the accessible shower unit.

Beaches and Shores

I. CONCEPT

A. Designated beaches and day-use areas shall be accessible.

CBC1132B.2.2

B. The major barrier to shore and beach use by persons with mobility impairments is the difficulty in traversing sandy or loose soil. For some water activities, such as fishing or swimming, it is necessary to have direct physical contact with the water from the beach or shore. Access to these activities involves two basic considerations:

1. Access to the edge of the beach or shore from accessible parking spaces, common use areas and support facilities. These routes must be consistent with the requirements for accessible routes of travel .

*Refer to Routes of Travel,
Section 32.*

2. Access across the beach to the element of the activity (the water's edge). These routes are known as Beach Access Routes.

C. All newly constructed beach, river, lake and shoreline facilities shall have at least one permanently installed Beach Access Route for every 1/2 mile of linear shoreline.

99AG-16.4.1.1

D. For an existing “designated” beach, when a pedestrian access route is constructed to or along the edge of the beach, a beach access route shall be provided.

99AG-16.4.1.2

For additional assistance regarding beach access, contact the Accessibility Section.

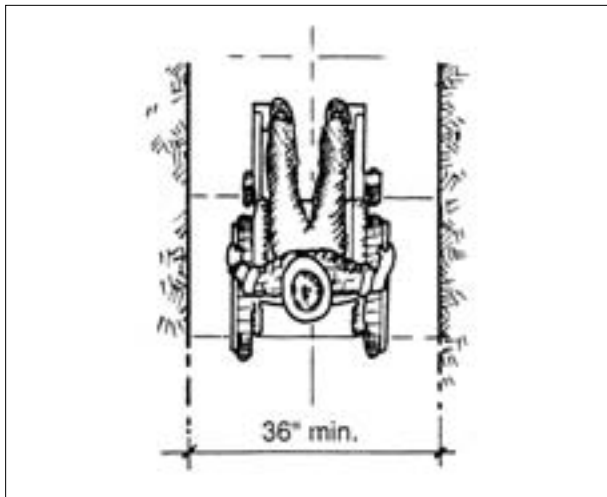


Figure 5-1

II. BEACH ACCESS ROUTES

A. The beach access route shall be located in the same area as the general circulation path, when feasible, and shall extend to the high tide level, mean riverbed level or the normal recreation pool level.

99AG-16.4.1

B. A Beach Access Route is not required when the pedestrian route along the edge of an existing beach is elevated 6 inches or higher above the beach surface. The above pedestrian route runs parallel to the water's edge.

99AG-16.4.1.2

C. The minimum clear width of the beach access route shall be 36" (48" is preferred) (**Figure 5-1**).

99AG-16.4.3

D. The surface of the beach access route shall be firm and stable.

99AG-16.4.2

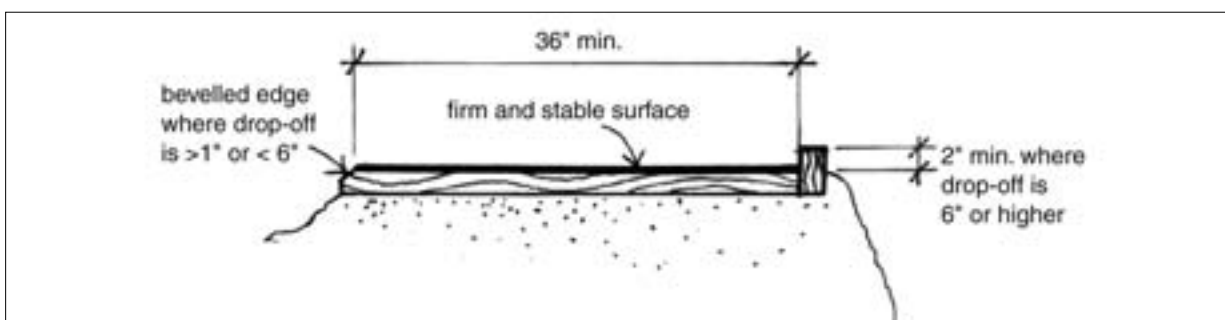


Figure 5-2

E. Edge protection, a minimum of 2" high, shall be provided where drop-offs are 6" or higher (**Figure 5-2**).

99AG-16.4.10

F. Drop-offs greater than 1", but less than 6", shall have a beveled edge (**Figure 5-2**).

99AG-16.4.10

G. Openings in the route surface, such as on a boardwalk, shall be $\frac{1}{2}$ " or less if perpendicular or diagonal to the route (**Figure 5-3**). They shall be $\frac{1}{4}$ " or less if parallel to the route (**Figure 5-4**).

99AG-16.4.4

H. Objects that protrude into the beach access route with their leading edge between 27" and 80" from the ground, shall not protrude more than 4". Objects mounted below 27" may protrude any amount but shall not reduce the clear width of the accessible route (**Figure 5-5**).

99AG-16.4.5/ADAAG-4.4.1

I. Vertical clearance on the beach access route shall be 80". If the vertical clearance of an area adjoining the beach access route is less than 80", a cane detectable barrier to warn the visually impaired shall be provided.

99AG-16.4.5/ADAAG-4.4.2

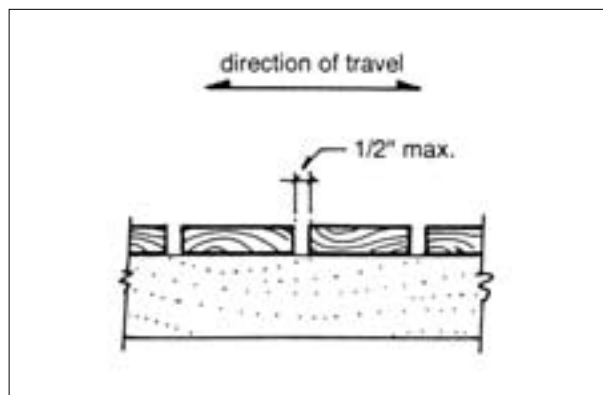


Figure 5-3

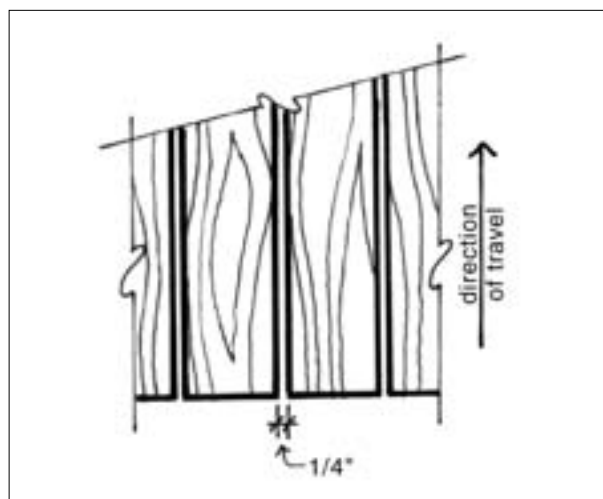


Figure 5-4

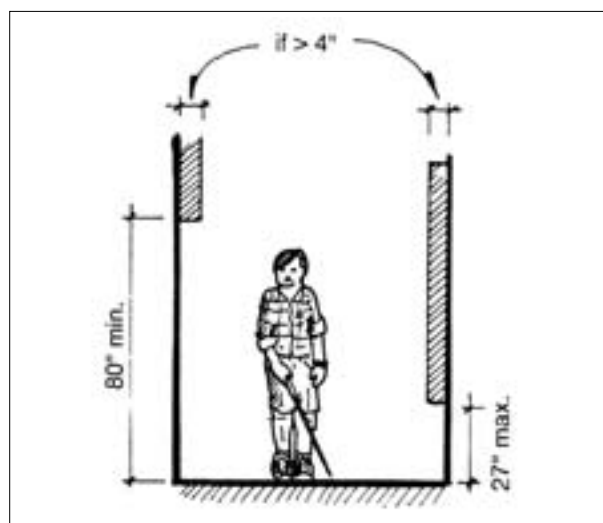


Figure 5-5

J. The slope for beach access routes must meet one of the following criteria:

99AG-16.4.8.2.1-3

1. From 0% to 5% slope for any length.
2. From 5.1% to 8.33% slope for 50'.
3. From 8.34% to 10% slope for a maximum of 30'.

K. The installation of resting spaces is required as follows:

99AG-16.4.8.2

Percent slope	Max. length	Rest interval
0% to 5.0%	No restriction	No restriction
5.1% to 8.33%	50'	Every 50'
8.34% to 10%	30'	Every 30'

L. Resting spaces shall be 60" minimum in length, shall have a width at least as wide as the route and have a slope of 3% or less. Exception, the slope of the resting space can be as great as 5% if required for proper drainage.

99AG-16.4.8.2.2-3

M. The cross slope shall be 3% or less, with a maximum of 5% allowed if necessary for drainage.

99AG-16.4.8.1

N. A maneuvering space measuring a minimum of 60" x 60" shall be provided at the end of the beach access route.

99AG-16.4.7

O. If the route is less than 60" wide, passing spaces a minimum of 60" x 60" shall be provided at least every 200'.

99AG-16.4.6

P. All obstacles in the beach access route shall be less than 1" high.

99AG-16.4.9

III. DESIGNATED SWIMMING AREAS

A. Depending on safety needs and local site conditions, designated swimming areas should be clearly defined in the water with highly visible floating devices.

B. Depending on safety needs and local site conditions, designated swimming areas should also be identified on shore with clearly visible signage.

IV. ACCESS TO WATER

A. When feasible, considering site conditions at designated swimming areas, a firm, stable surface should provide access into the water. An additional option may be a beach wheelchair. Contact the Accessibility Section to help determine if water access is necessary and/or feasible in your specific area.

B. Beach wheelchairs allow assisted access to the beach for people who use wheelchairs. If beach wheelchairs are provided, signage shall be posted to indicate their availability.

C. Wherever beach access is designated as a program which is or will be made accessible, at least two beach wheelchairs will be provided at such parks unless:

1. There are no staff or facilities at the park available to store and supervise the use of the wheelchair and/or:
2. The slope conditions at the park make use of beach wheelchairs hazardous.

D. Additional beach wheelchairs will be provided at appropriate locations if and when usage indicates that additional beach wheelchairs are needed at such locations.

Boating

I. CONCEPT

A. Boating facilities include facilities to launch and moor boats and all associated structures, such as docks, piers, marinas and gangways. If a site presents challenges to meeting the guidelines, such as highly fluctuating water surfaces, consult with the Accessibility Section for assistance with alternative design and/or mechanical devices.

B. Boating facilities, docks, fishing piers, etc. shall be accessible.

II. BOATING FACILITIES CAN CONSIST OF THE FOLLOWING:

A. Boat Launch Ramp: Surface designed for the launch and retrieval of boats.

B. Boat Slip: Area where boat is tied to a dock or pier for the purpose of embarking and disembarking.

C. Gangway: Variable-sloped pedestrian walkway linking a fixed structure or land with a floating structure.

D. Pier: Structure at which boats are intended to moor for the purposes of embarking or disembarking occupants to the structure.

III. GANGWAYS

A. Gangways are considered to be part of the accessible route and shall have slopes no greater than 8.33% and comply with ADAAG-4.3 (**Figure 6-1**).

ADAAG-15.2.1

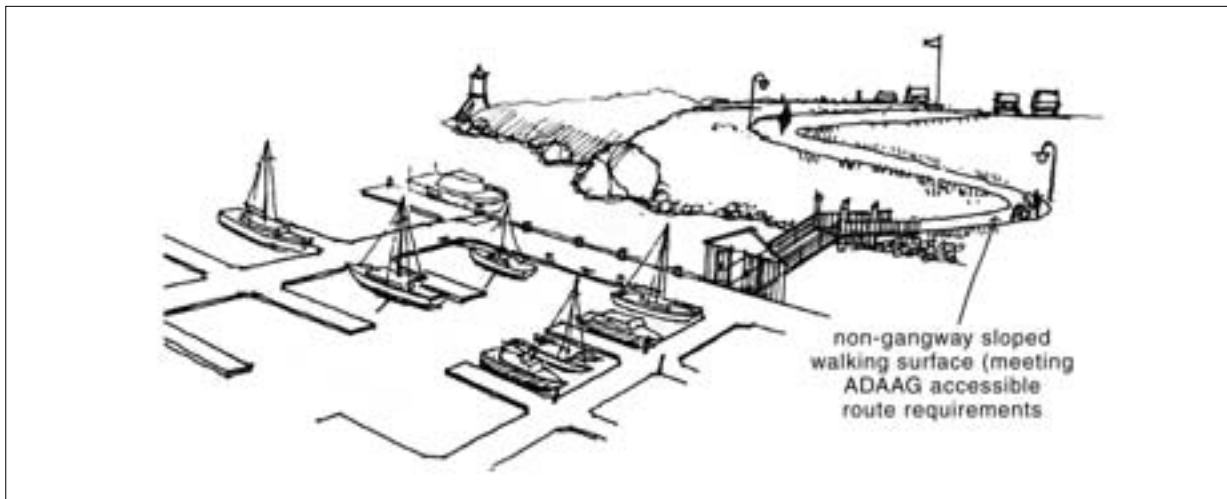


Figure 6-1

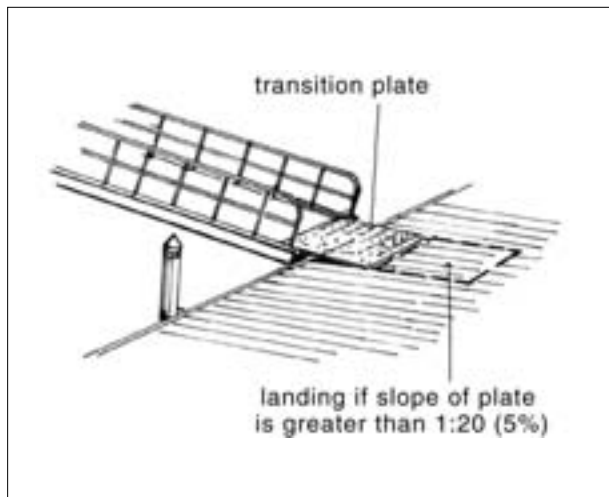


Figure 6-2

B. Transition plates are permitted at the top and bottom of the gangway (**Figure 6-2**).

ADAAG-15.2.1

C. Gangways are not required to have landings at the end if transition plates of less than 1:20 (5%) slope are provided. If slope is greater than 1:20 (5%), the transition plate must have a landing at the non-gangway end of the transition plate (**Figure 6-2**).

ADAAG-15.2.2

D. Extremes in operating conditions require that some exemptions be allowed.

ADAAG-15.2.1

1. Maximum rise of 30" shall not apply to gangways. As a result, no intermediate landings on gangways are required and gangways may be any length.
2. Handrail extensions are not required on gangways and landings where they connect to transition plates and shall not be required on transition plates.
3. Where the total length of the gangway or series of gangways serving as part of a required accessible route is at least 80 feet, the maximum slope speci-

fied, 8.33%, shall not apply to the gangways (**Figure 6-3**).

ADAAG-4.8.2/ADAAG-15.2.2

4. In smaller facilities with less than 25 boat slips, the slope of the gangway may exceed 1:12 (8.33%), if the gangway is at least 30' long (**Figure 6-3**).

ADAAG-15.2.2

E. When it is not feasible to provide an accessible gangway due to extremes in operating conditions, other accessible options (including mechanical lifts) will be considered.

IV. BOAT SLIPS

A. Where boat slips are not demarcated or identified by length, each 40' of boat slip edge along the perimeter of a pier will be counted as one boat slip. For

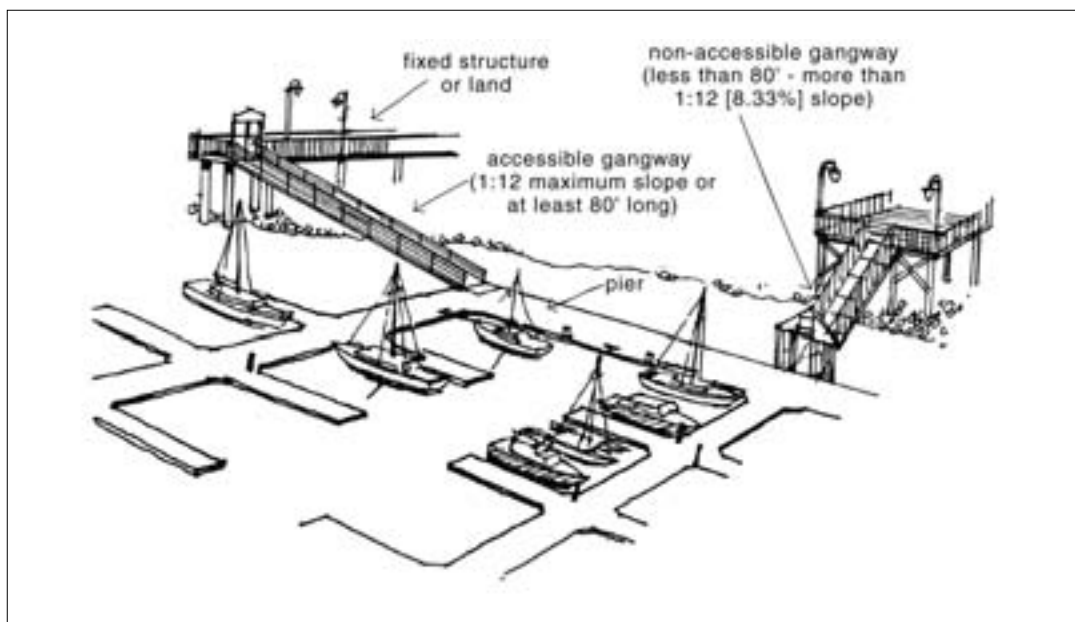


Figure 6-3

Boating

example, a 60' pier with boats moored on either side (120' total slip length) would equal 3 boat slips.

ADAAG-15.2.3

B. When boat slips are provided, the number of boat slips required to be accessible must comply with the table below.

ADAAG-15.2.3

Number of Accessible Boat Slips Required	
Total Slips in Facilities	Minimum Accessible Slips
1-25	1
26-50	2
51-100	3
101-150	4
151-300	5
301-400	6
401-500	7
501-600	8
601-700	9
701-800	10
801-900	11
901-1000	12
1001 and over	12 plus 1 for each 100, or fraction thereof, over 1000

C. Accessible boat slips shall be dispersed throughout the various types of slips that are provided.

ADAAG-15.2.3.1

D. Where boat launch ramps are provided with boarding piers, at least one boarding pier complying with ADAAG-15.2.4 shall be provided adjacent to the ramp.

ADAAG-15.2.4

E. Accessible boat slip/dock shall have a clear pier width at a minimum 60" wide and as long as the slip. For every 120" (10 feet) of linear length, the boarding pier/dock will have a clear opening of 60".

ADAAG-15.2.3.1

There are three exceptions:

1. Width of clear pier space may be 36" wide for a length of 24", as long as multiple 36" segments are separated by segments that are 60"x 60"x 60" clear (**Figure 6-4**).
2. If provided, edge protection should be 4" high maximum and 2" deep maximum at the clear openings (**Figure 6-5**).

3. In alterations, facilities with finger piers must have at least one accessible finger pier, which is the length of the boat slip and a minimum 60" wide. Other accessible slips can be located perpendicular to the end of the pier with the clearance extending the slip width.

V. SAFETY

A. Walking surfaces of the facility shall be made of non-slip materials.

B. Horizontal gaps in walking surfaces (e.g. gratings and planks) shall be perpendicular and less than 1/2" wide (Figure 6-6).

ADAAG-16.3.3

C. Vertical joints in the surface of the facility (including shore connection) shall have a maximum height of 1/4" or, if 1/4" to 1/2", shall be beveled at 50% (Figure 6-7).

CBC-1133B.7.4

D. The walking surface of docks without guardrails has a recommended maximum height of 24" above the water. Edges should be emphasized by use of a color-contrasting strip that is a minimum 2" wide.

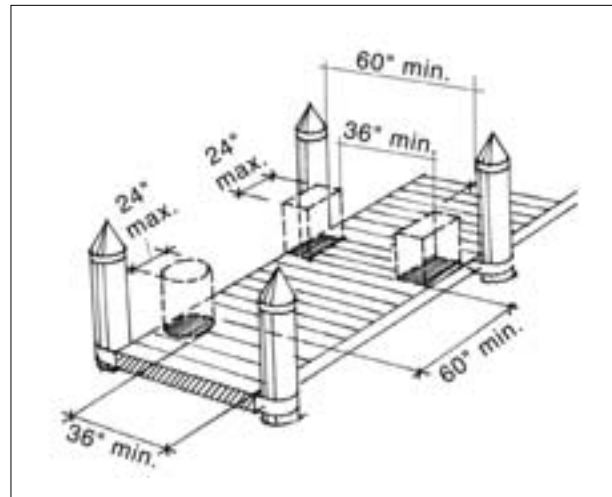


Figure 6-4

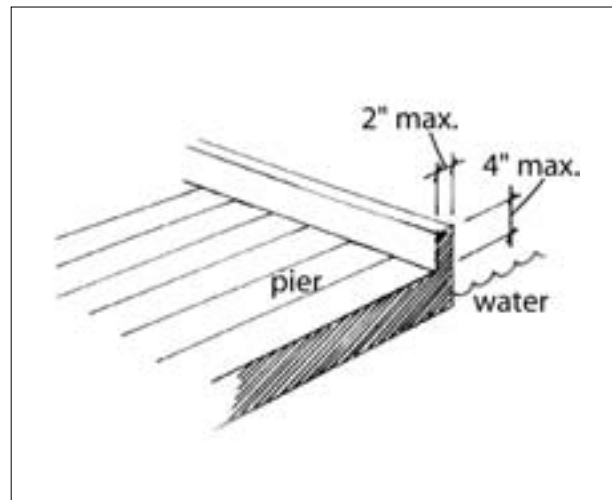


Figure 6-5

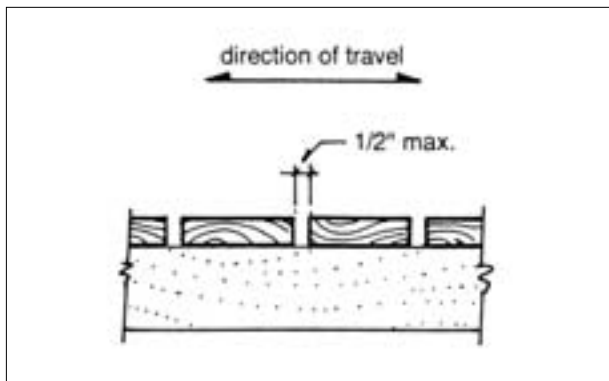


Figure 6-6

E. The dock/pier with water fluctuations should post a sign reading “Caution: Due to fluctuation of water elevation, this dock/pier is only accessible between the tidal elevations of ____ and _____. Use with caution”.

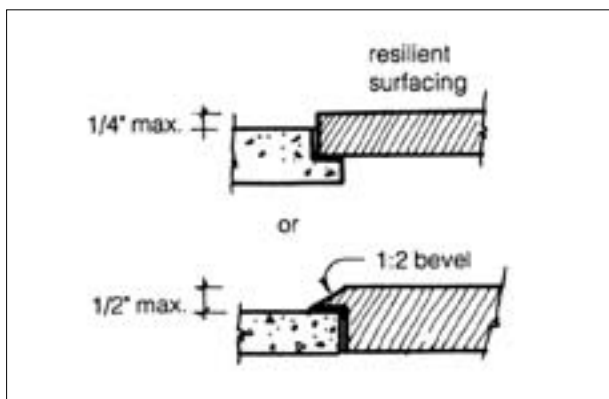


Figure 6-7

Buildings

I. CONCEPT

A. Access to buildings shall comply with Chapters 11A, 11B, and all subsections of Title 24 of the California Code of Regulations along with the general requirements of ADAAG. The code specifies all requirements relating to parking, an accessible route of travel, doorways, clear spaces, reaches, as well as elevators, lifts, stairs, telephones and similar specialized facilities.

99AG/ADAAG-4.3/CBC-1114B.1.2

B. All buildings, or portions thereof, when constructed or renovated, must be accessible. The only exceptions are for portions of floors not customarily occupied, including elevator pits, piping chases, equipment catwalks and machinery rooms.

C. In general, if fixed components, such as cabinets, shelves, closets, drawers, counters, sinks and similar apparatus,

plus their operating mechanisms and associated controls, dispensers and receptacles are provided in a building, then at least one of each type shall comply with this guideline.

D. This section should be used in conjunction with appropriate sections, including restrooms, kitchens, dining areas, etc.

E. Please Note: These are minimum guidelines only to be used for the purpose of surveying existing buildings and planning for future buildings. The guidelines are incomplete for use in preparing drawings for new or renovated construction. A qualified designer, licensed in the state, knowledgeable in all building codes and the various building occupancy requirements, should be utilized or consulted to ensure compliance with all codes. Access compliance shall also be ensured through consultation with the architects in the Accessibility Section, Acquisition and

Development Division. Additionally, State and Federal regulations should be consulted for requirements for all publicly funded buildings.

II. ACCESSIBLE ROUTE OF TRAVEL

A. For accessible routes of travel exterior to the building:

Refer to Parking, Section 25, Ramps, Section 30 and Routes of Travel, Section 32.

B. When only one accessible route of travel is provided, it shall not pass through kitchens, storage rooms, restrooms, closets or other similar spaces, except within an individual dwelling unit.

CBC-1114B.1.2

C. The accessible route, to the maximum extent possible, shall coincide with the route for the general public. Vertical access shall include an elevator, lift or ramp.

ADAAG-4.3.2

III. DOORWAYS

A. *Refer to Doorways, Section 13.*

IV. CLEAR SPACES

A. In each room, or portion thereof, dedicated to specific functions, there must be a clear space measuring 60" in diameter or a T-intersection with aisles at least 36" wide and 60" long for turning a wheelchair around (**Figures 7-1 & 7-2**). These clear spaces must be free of obstructions from the floor surface to a height of 27".

CBC-1118B.2-3

B. If a clear space is located in an alcove, there must be an additional clear space provided.

CBC-1118B.4.2

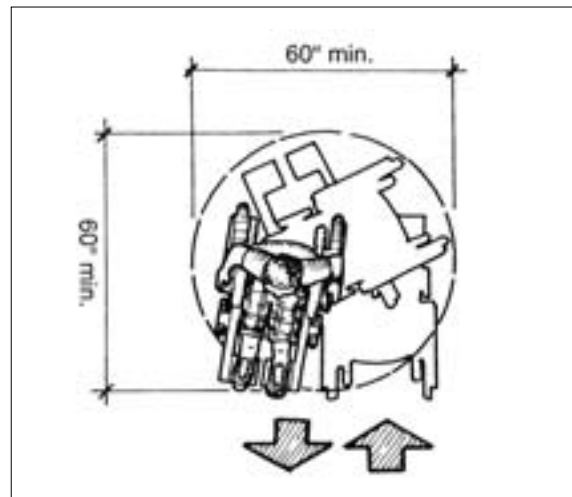


Figure 7-1

C. There must be a clear space at least 30" x 48" (the 48" measured in the direction of the route of travel) that allows either a forward or parallel approach to building facilities or objects such as cabinets, closets and appliances (Figures 7-3 & 7-4).

CBC-1118B.4

V. AISLES AND CORRIDORS

A. Every portion of a building shall provide aisles leading to an emergency exit.

CBC-1133B.6.1

B. Aisles serving one side must be at least 36" wide. Aisles serving both sides must be at least 44" wide.

CBC-1133B.6.2

C. If the building occupancy is 9 persons or less, the building corridors must be at least 36" wide.

CBC-1133B.3.1

D. If the building occupancy is 10 persons or more, the building corridors must be at least 44" wide.

CBC-1133B.3.1

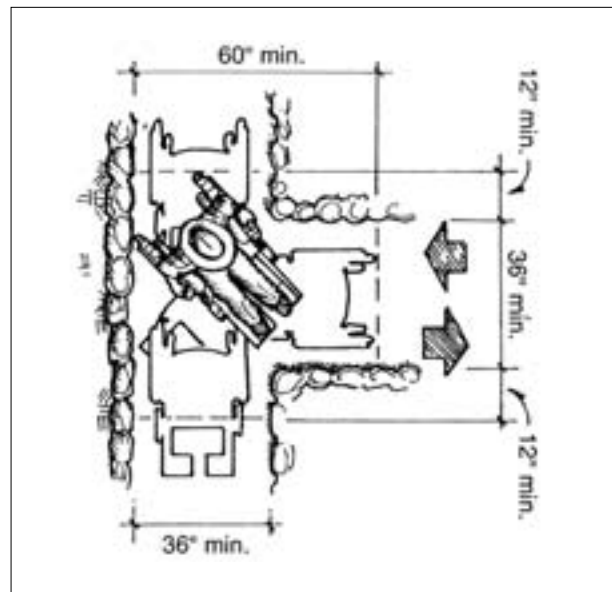


Figure 7-2

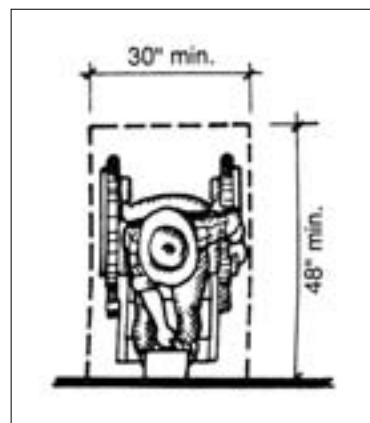


Figure 7-3

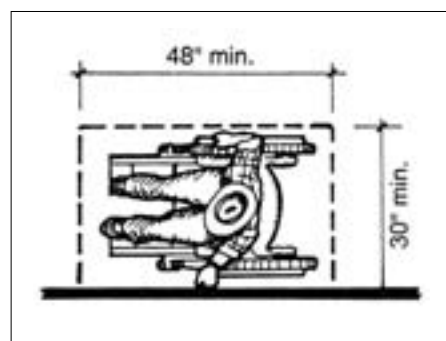


Figure 7-4

Buildings

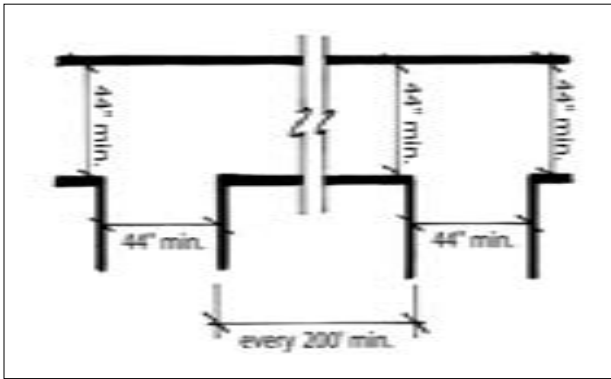


Figure 7-5

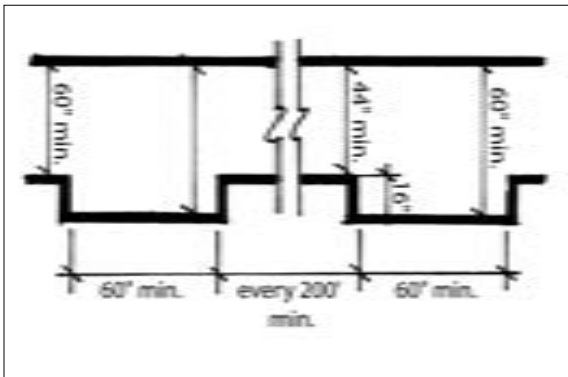


Figure 7-6

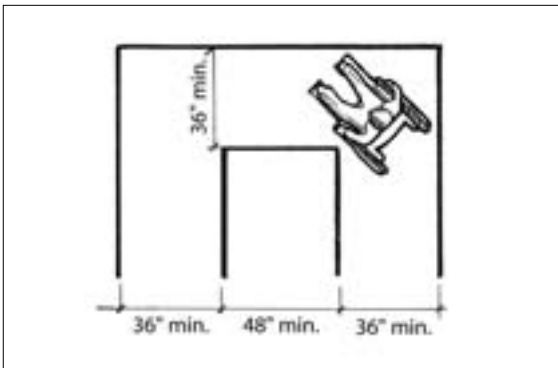


Figure 7-7

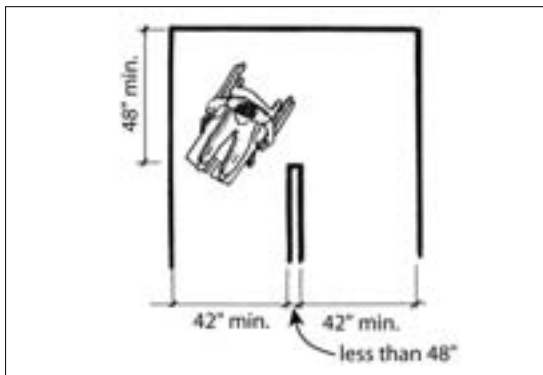


Figure 7-8

E. If a corridor is longer than 200', there must be a passing area at least every 200' measuring a minimum of 60" wide or a T-intersection a minimum of 44" wide for two wheelchairs to pass (Figures 7-5 & 7-6).

CBC-1133B.3.2

F. If the turn space on a 90° turn is less than 48", the width of the corridor must be at least 42" on approach and 48" width in the turn (**Figures 7-7 & 7-8**).

ADAAG-4.3.3

G. In a corridor configured with a 180° turn, a 36" wide corridor may be permitted, provided that the run length at the 90° turn is a minimum of 48" in length. A run length less than 48" in length at the 90° turn requires a 48" minimum turn width with a 42" minimum corridor width (**Figures 7-7 & 7-8**).

ADAAG-4.3.3

H. Objects may not protrude into clear areas with their leading edge between 27" and 80" above the floor for more than 4" into the clear space (**Figure 7-9**).

CBC-1133B8.6.1

I. Freestanding objects on posts or pylons may overhang 12" or less into clear spaces from a distance between 27" and 80" above the floor (**Figure 7-9**).

CBC-1133B.8.6.1

J. If the clear space is in an alcove for a side approach, which is deeper than 15", there must be an extra 12" of clear space in addition to the standard 48" measurement (**Figure 7-10**). If the clear space is in an alcove for a front approach, which is deeper than 24", there must be an extra 6" of clear space width in addition to the standard 30" clear space measurement (**Figure 7-11**).

CBC-1117B.2.4

K. Floors of a single story must be on a common level or connected by a ramp, elevator or access lift.

CBC-1120B.1

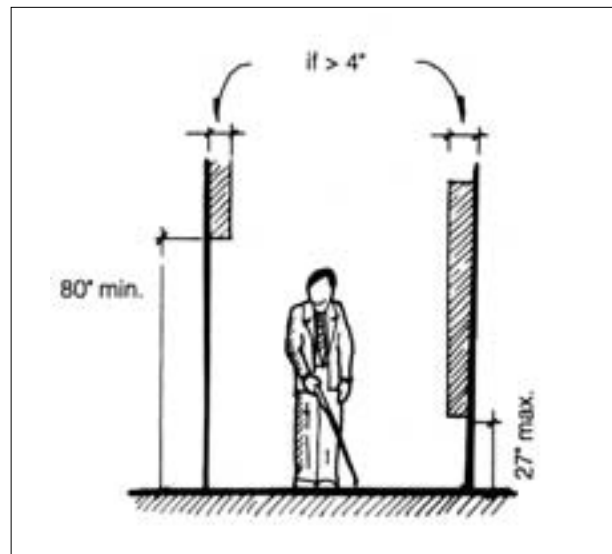


Figure 7-9

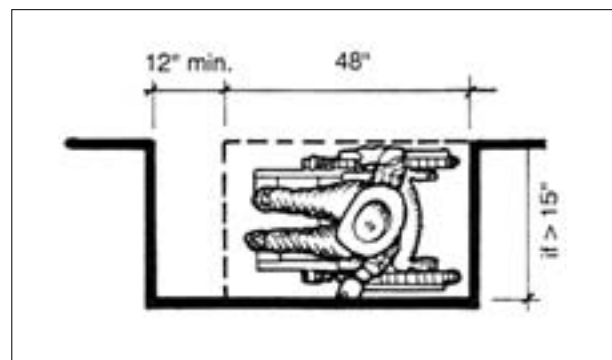


Figure 7-10

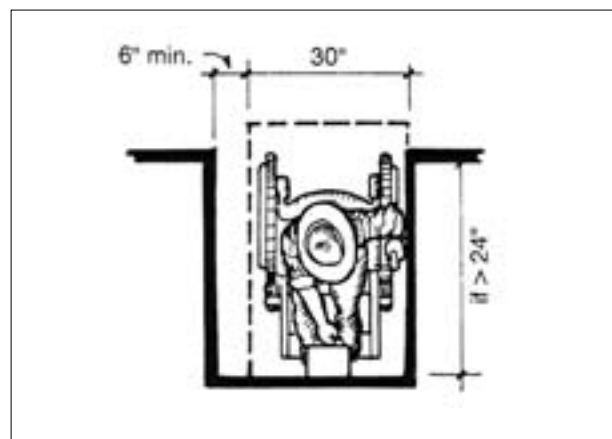


Figure 7-11

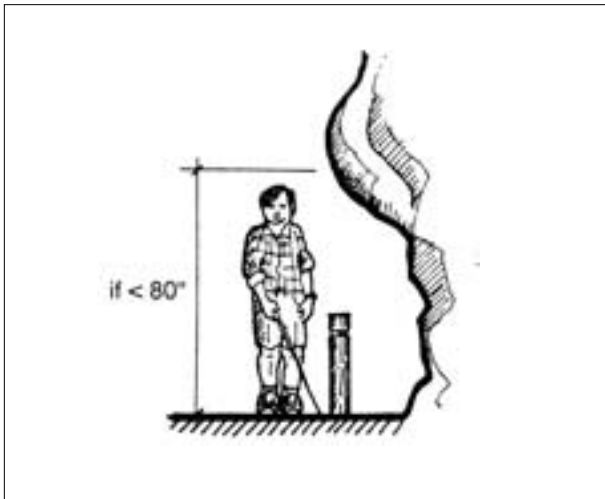
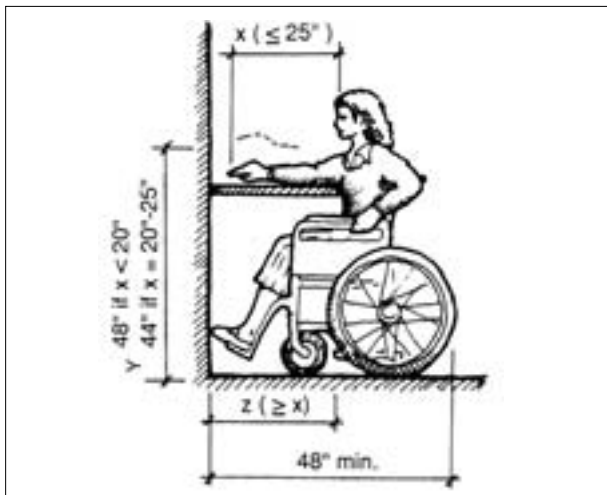


Figure 7-12



Note: X shall be less than or equal to 25". Z shall be greater than or equal to X. When X is less than 20", then Y shall be 48" maximum. When X is 20" to 25", then Y shall be 44" maximum.

Figure 7-13

L. If there is less than 80" of clear headroom next to an accessible route, there must be a cane detectable barrier within 27" of the floor (**Figure 7-12**).

ADAAG-4.4.2

VI. REACHES

A. Clear Floor Space

1. Clear floor space, at least 30"x 48", shall be created to allow either forward or parallel approach by a person in a wheelchair (**Figures 7-3 & 7-4**).

CBC-1118B.4.1

2. Clear floor or ground space for wheelchairs may be part of the knee space required under some items (**Figure 7-13**).

ADAAG-4.2.4.1

B. Front (Forward) Reach

1. Front accessible forward approach with forward reach – item must be positioned between 15" and 48" from the floor with the maximum horizontal reach over an obstruction not to exceed 20" (**Figure 7-14**).

CBC-1118B.5

2. A maximum reach over an obstruction of 25" is allowed if the maximum height of the item is 44".

CBC-1118B.5

C. Side Reach

1. Parallel approach in a wheelchair with side reach – item must be positioned between 9" and 54" from the floor with the maximum horizontal reach over an obstruction not to exceed 10" (**Figure 7-15**).

CBC-1118B.6

2. A maximum reach over an obstruction of 24" is allowed if the maximum height of the item does not exceed 46" (**Figure 7-16**).

CBC-1118B.6

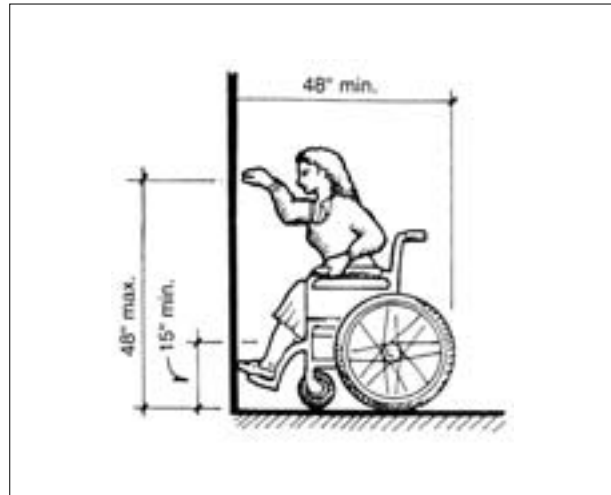


Figure 7-14

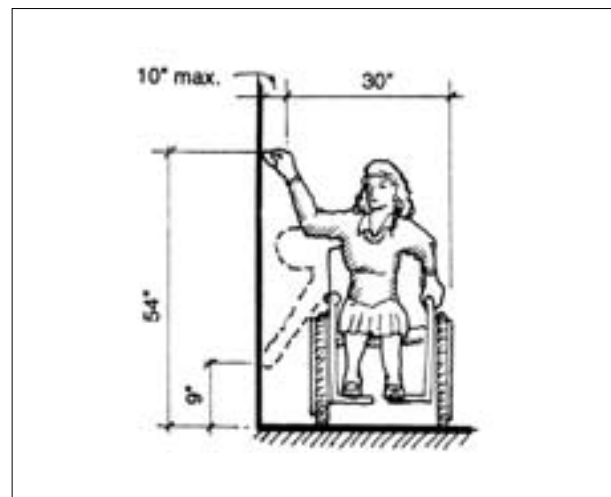


Figure 7-15

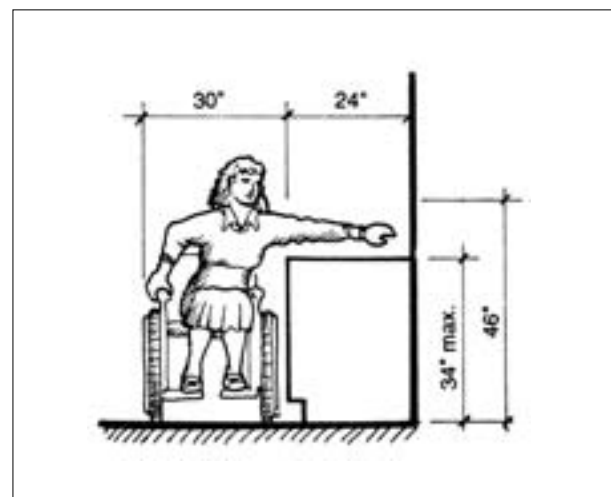


Figure 7-16

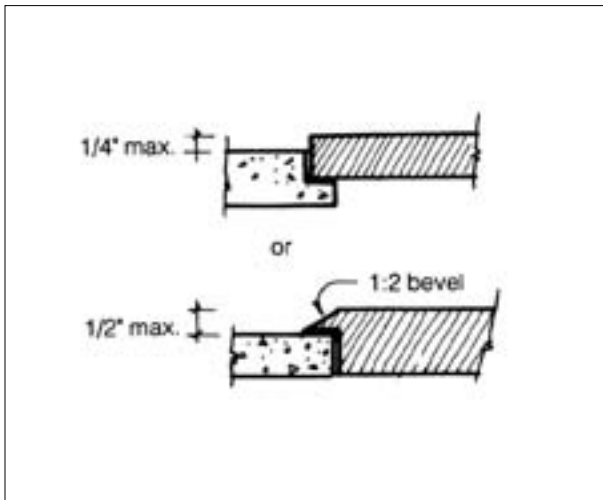


Figure 7-17

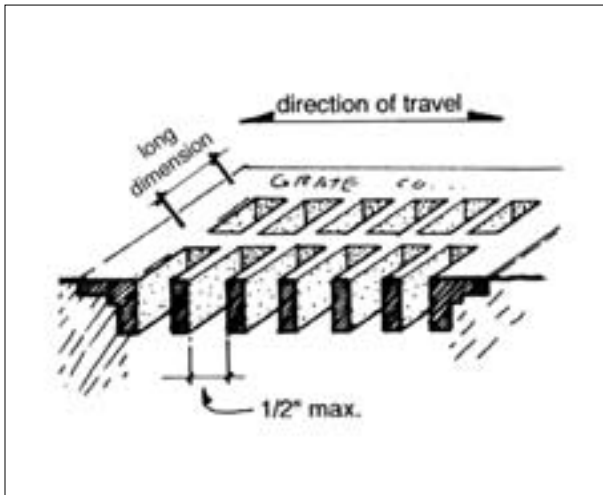


Figure 7-18

VII. FLOORS

A. The floor surfaces must be stable, firm and slip resistant.

CBC-1124B.1

B. Changes in level shall be a maximum of 1/4" or, if 1/4" to 1/2", shall be beveled at 50% **(Figure 7-17)**.

CBC-1124B.2

C. If a carpet is provided, it must be firmly attached to the floor and have a firm pad or no pad.

CBC-1124B.3

D. Carpets must be level cut and have a maximum pile height of 1/2".

CBC-1124.3

E. The edges of carpet must be fastened to the floor with a maximum vertical change from the floor of 1/4".

CBC-1124B.2

F. Openings in gratings shall be a maximum of 1/2" in one direction and, if elongated, the long dimension of the grating shall be perpendicular to the dominant direction of travel **(Figure 7-18)**.

CBC-1124B.4

VIII. OPERATING CONTROLS

- A.** For details on operating controls, refer to appropriate sections on restrooms, exhibits, etc.

IX. SIGNAGE

- A.** For details on signage see appropriate sections on signage and restrooms.

X. ELEVATORS

- A.** All multi-story buildings must provide access by ramp or elevator.

ADAAG 4.1.3(5)/CBC 1103B.1

- B.** Changes in levels along an accessible route greater than 1/2" shall comply with the requirements of a curb ramp, ramp, elevator or platform lift as permitted for new construction or alterations. An accessible route does not include stairs, steps or escalators.

ADAAG 4.3.8/CBC 1133B.7.4

- C.** Elevators shall be on an accessible route and they shall be designed and constructed to be accessible.

ADAAG 4.0-4.11/CBC 1116B

Campfire Centers/ Assembly Areas

I. CONCEPT

A. Campfire centers and other assembly areas, including theaters, stages and spaces used by performers, are provided to enhance park visitor experiences, through education, entertainment or a variety of other needs. Facilities must be fully accessible to visitors and employees. All campfire centers and other assembly areas, as well as facilities therein, shall be constructed or renovated, taking into account the path of travel (*refer to Routes of Travel, Section 32*) and any ramp requirements.

99AG/ADAAG-4.3/CBC-1114B.1.2

II. SEATING

A. Accessible seating shall be distributed throughout the area to provide a choice of sight lines.

ADAAG-4.33.3/CBC-1104B.3.5

B. Each accessible seating area shall have provisions for companion seating, and shall be located on an accessible route that also serves as an emergency accessible egress.

ADAAG-4.33.3/CBC-1104B.3.5

C. Seating Requirements:

ADAAG-4.1.3(19)(a)/CBC-Tbl11B-1

Seating Capacity	# of Required Wheelchair Locations
4 to 26	1
27 to 50	2
51 to 300	4
301 to 500	6
over 500	6 plus 1 for each 100 over 500

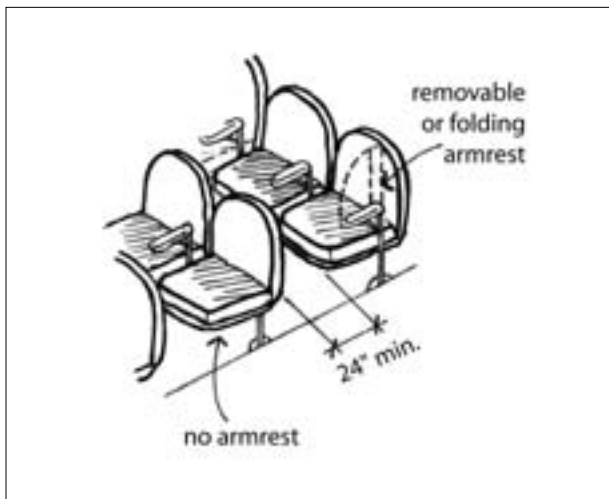


Figure 8-1

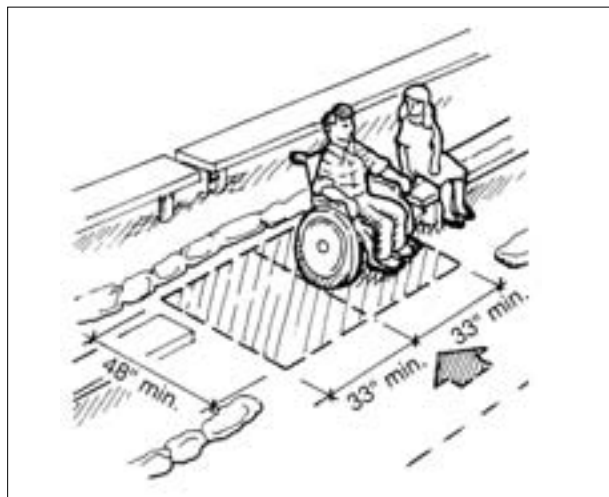


Figure 8-2

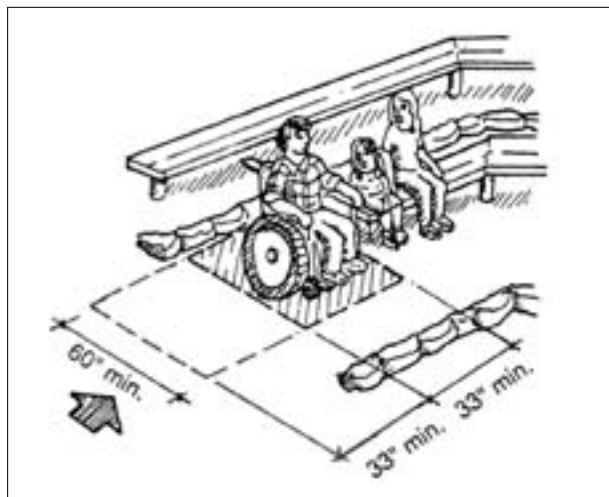


Figure 8-3

D. At least 1%, but no less than 1, of all fixed seats shall be aisle seats with no armrest on the aisle side, or must have folding or removable armrests on the aisle side (**Figure 8-1**).

*ADAAG-4.1.3(19)(a)/
CBC-1104B.3.4.1*

E. Accessible aisle seats shall be identified by a sign or marker.

*ADAAG-4.1.3(19)(a)/
CBC-1104B.3.4.1*

F. The wheelchair location shall have a minimum clear floor or ground space of 48" deep by 66" wide, if a forward or rear approach (**Figure 8-2**).

CBC-1104B.3.6

G. The wheelchair location shall have a minimum clear floor or ground space of 60" deep by 66" wide, if side approach (**Figure 8-3**).

CBC-1104B.3.6

H. If wheelchair-seating locations are not required, removable seats shall be available.

CBC-1104B.3.7

I. Proper signage in the lobby or ticket booth area shall indicate seating accessibility.

CBC-1104B.3.4.1

J. Semi-ambulant seating shall be provided of up to 1% of the total, but no less than two. Semi-ambulant seats shall have a minimum of 24" of leg clearance measured from the front edge of the seat to the backrest of the seat immediately in front or nearest obstruction (**Figure 8-1**).

CBC-1104B3.8

K. Armrests and backrests required with Fixed Bench Seating are not mandatory in a spectator assembly environment.

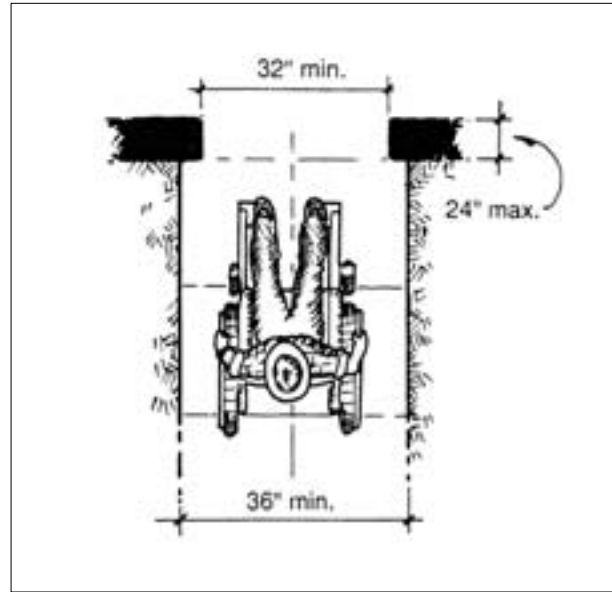


Figure 8-4

III. PATH OF TRAVEL

A. At least one accessible route within the boundary of the site shall be provided from public transportation stops, accessible parking and accessible passenger loading zones, as well as public streets or sidewalks to the accessible entrance they serve.

99AG/ADAAG-4.3/CBC-1114B.1.2

B. The accessible route shall, to the maximum extent feasible, coincide with the route for the general public.

ADAAG-4.3.2

C. The minimum clear width of an accessible route shall be 36", except at doorways, which may be 32" (**Figure 8-4**).

ADAAG-4.3.3

D. If an accessible route has less than 60" clear width, passing spaces at least 60" x 60" shall be located at reasonable intervals not to exceed 200'. A T-intersection of 2 corridors or walks is an acceptable passing place. (An accessible route shall connect wheelchair-seating locations with performing areas, including stages and other spaces used by presenters).

CBC-1104B.3.10-11

E. Where it is technically infeasible to alter all performing areas to be on an accessible route, at least one of each type of performing area should be made accessible.

F. All wheelchair seating shall adjoin an accessible route that can also serve as a means of egress in case of emergency.

ADAAG-4.33.3/CBC-1104B.3.5

IV. LISTENING SYSTEMS

A. *Refer to Assistive Listening Devices, Section 2.*

Camping

I. CONCEPT

A. Where camping (tent sites, RV or trailer sites, cabin, tent platform or other camping shelter sites) is provided, accessible sites shall be provided for each type of site according to the guidelines at right.

99AG/ADAAG-4.3/CBC-1114B.1.2

B. The minimum number of sites shall comply with the following:

99AG-16.17.1

Number of Camping Sites	Number of Accessible Camping Sites (Tent, RV, Shelters)
1	1
2 to 25	2
26 to 50	3
51 to 75	4
76 to 100	5
101 to 150	7
151 to 200	8
201 to 300	10
301 to 400	12
401 to 500	13
501 to 1000	2% of total
1001 and over	20 plus 1 for each 100 over 1000

Camping

C. All elements of an accessible site shall be accessibly designed. In addition, there shall be accessible routes from the campsite to its own parking, utilities, site furnishings, an accessible restroom and, if present, a campfire center.

99AG-16.17.1

II. PARKING SPACE

A. The parking space shall be 17' wide x 18' long (for RV sites, the recommended minimum is 20' wide x 24' long) and adjacent to campsite or picnic areas (Figure 9-1). Slope shall not exceed 2% (1:50) except for drainage, where it may be up to 3% (1:33). The surface shall be firm, stable, and slip-resistant.

99AG-16.17.2.3/CBC-1124B.1

III. RV CAMPING

A. Hook-ups and campsite furniture shall be accessibly designed (Contact the Accessibility Section).

B. If an accessible pull-through campsite is provided, then the pull-through area shall be a minimum 20' wide for the entire length.

99AG-16.17.2.1

IV. SITE PLANNING

A. Accessible sites shall represent the range of sites in the campground (e.g. water view, secluded, etc.).

B. If tent sites are provided, they should have an 18' x 18' firm, but not paved, tent/sleeping pad adjacent to table/cooking area. Camp and tent site slope shall not exceed 2%; if needed for proper drainage, 3% is acceptable (Figure 9-1).

99AG-16.17.3

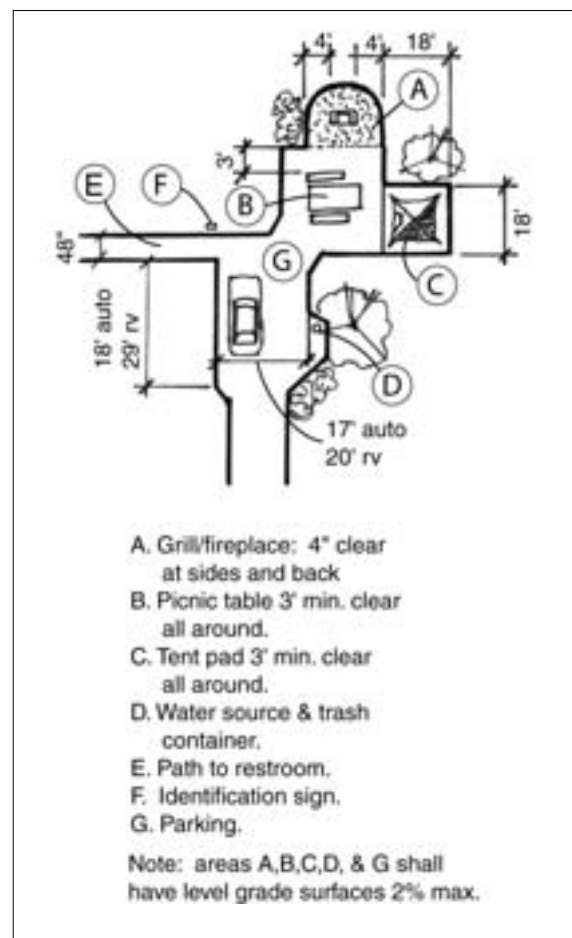


Figure 9-1

C. If tent sites are provided, the ground must be firm and stable, and designed to allow the use of tent stakes.

99AG-16.17.3.2

D. If a raised tent platform is provided, there must be a minimum 3" edge protection.

99AG-16.17.3.6

V. PICNIC TABLES

A. Picnic tables shall have a minimum 36" clear width of firm surface area all around. Trash receptacles, barbecues, etc. shall not encroach on this space (**Figure 9-1**).

99AG-16.5.5-6

B. Picnic tables and benches shall have rounded corners with no sharp edges or protruding hardware, such as bolts.

C. The distance from the ground to the tabletop work surface shall be between 28" and 34" (32" recommended) (**Figure 9-2**).

CBC-1122B.4

D. Tables shall have a 27" minimum knee clearance from surface grade (29" clearance is recommended) (**Figure 9-2**).

99AG-16.5.4

E. Picnic tables shall have a 19" clear horizontal knee space under the table. Toe clearance 9" minimum in height shall extend an additional 5" minimum from the knee clearance (**Figure 9-2**).

99AG-16.5.4

F. Tables shall have at least a 30" wide clear space beneath the table (**Figure 9-3**).

99AG-16.5.4

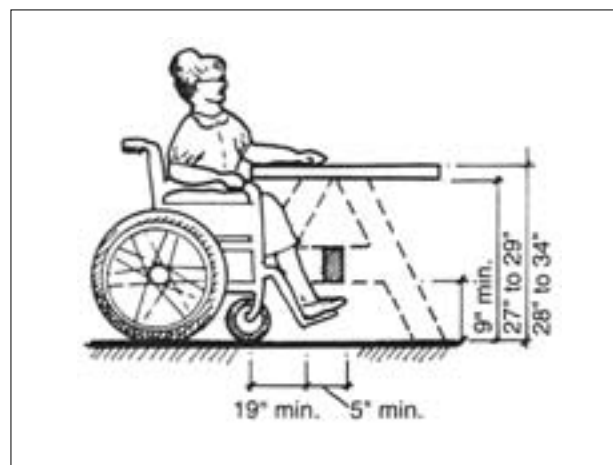


Figure 9-2

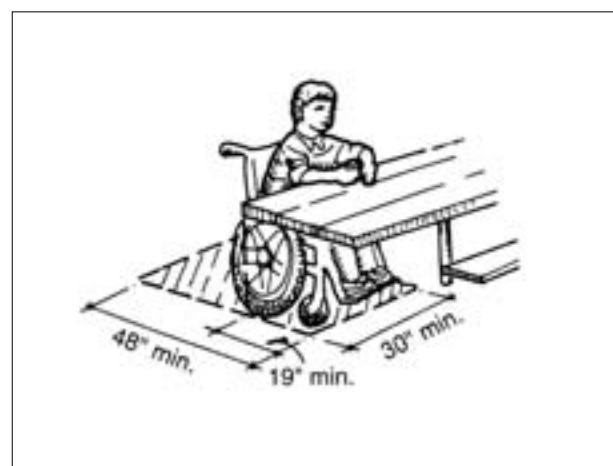


Figure 9-3

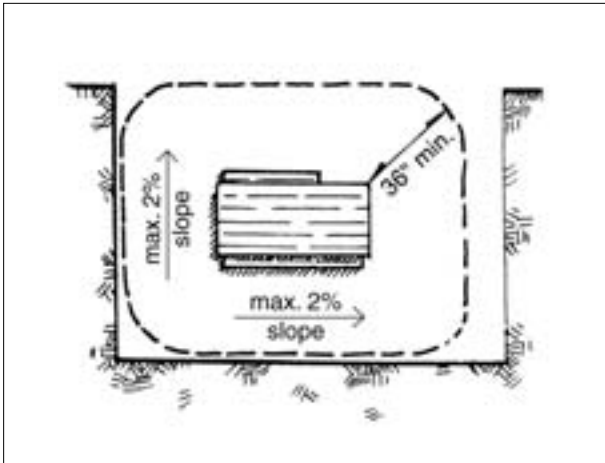


Figure 9-4

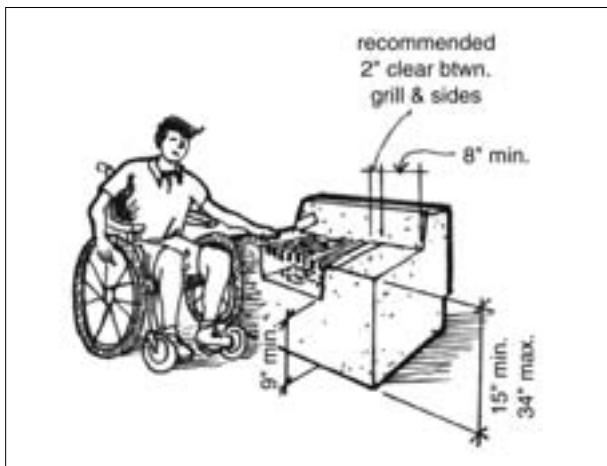


Figure 9-5

G. The maximum slope around the picnic table shall not exceed 2%; 3% is acceptable for proper drainage (Figure 9-4).

99AG-16.5.7

VI. GRILLS, FIRE RINGS AND FIREPLACES

A. Grills, fire rings and fireplaces shall be placed so there is a minimum 48" clear space 360° surrounding the cooking facility. A distinctive detectable firm surface around heating/cooking facilities would be helpful in alerting campers who are blind and visually impaired of hazards and is recommended (Figure 9-1).

99AG-16.6.5

B. It is recommended that grills and fireplaces have an adjacent horizontal surface at least 8" wide on which hot objects may be placed (Figure 9-5).

C. Fire rings shall be 20" to 24" to the top from the outside ground.

99AG-16.6.5

D. Where a raised edge or curb is provided on a fire ring, the distance from the outside edge of the fire ring to the fire building surface shall not exceed 24".

99AG-16.1.5/ADAAG-4.2.6

E. The fire building surface of a fire-place or fire ring must be at least 9" from the ground (**Figure 9-6**).

F. The cooking surface of post-mounted grills shall be between 15" and 34" above adjacent grade, with unobstructed access by horizontal reach from a standing or seated position (**Figure 9-7**).

CBC-1124B.4

G. When the grill is built into a fire-place, the cooking surface shall be between 15" and 34" above the adjacent grade. The fire-building surface of fire-place must be 9" from the ground (**Figure 9-5**).

99AG-16.6.4/99AG-16.7.3

H. The cooking facility shall be surrounded by a firm, stable ground surface.

99AG-16.7.5

I. The maximum slope of the clear space surrounding the cooking facility shall be 2%, with 3% allowed for drainage (**Figure 9-8**).

99AG-16.6.6

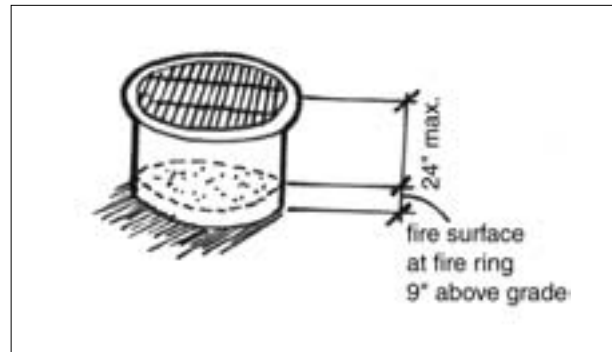


Figure 9-6



Figure 9-7

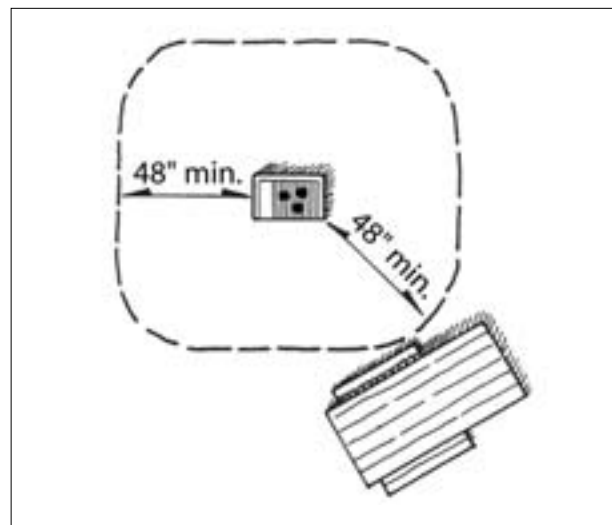


Figure 9-8

VII. WATER FAUCETS

A. Faucets shall be located adjacent to a clear, stable, firm ground surface area at least 60" x 60" in size. Faucets shall be configured to allow a forward approach (**Figure 9-9**).

99AG-16.16.3

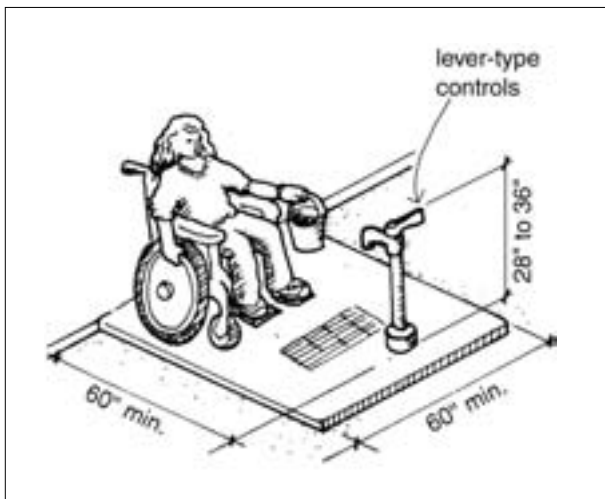


Figure 9-9

B. A 2% slope shall be allowed to drain toward the faucet drain (3% slope when necessary for drainage). Drain grating shall have a maximum opening of 1/2".

99AG-16.16.4/CBC-1124B.4

C. The faucet lever(s) shall be located 28" to 36" above the ground (does not apply to hand pumps) and shall be operated by a push button or lever actuator that requires no more than 5 lbs. of pressure (**Figure 9-9**).

99AG-16.16.2-3/ADAAG-4.27.4

VIII. TRASH RECEPTACLES

A. Trash receptacles shall be located on an access route from the campsite (**Figure 9-1**).

99AG-16.8.1

B. Outdoor trash receptacles (dumpsters or cans) shall have an opening at a height of 9" to 54" above the adjacent grade (**Figure 9-10**). Where necessary for health and safety reasons, animal exclusion receptacles that do not meet this guideline may be used.

ADAAG-4.27.3

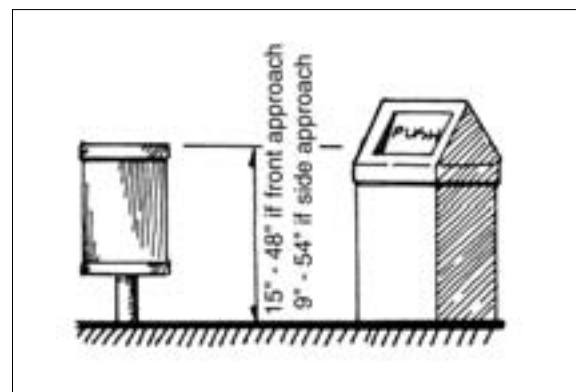


Figure 9-10

C. If so equipped, both outdoor and indoor (e.g. restrooms) trash receptacles shall operate with a single hand manipulation requiring no more than 5 lbs. of pressure.

ADAAG-4.27.4

D. Trash receptacle operating mechanisms shall be a maximum of 48" above the adjacent grade.

E. There shall be at least 30" x 48" of stable, firm, clear space to approach the trash receptacle. The maximum slope of the clear space shall be 2%, with 3% acceptable for proper drainage (**Figure 9-11**).

99AG-16.8.2-4

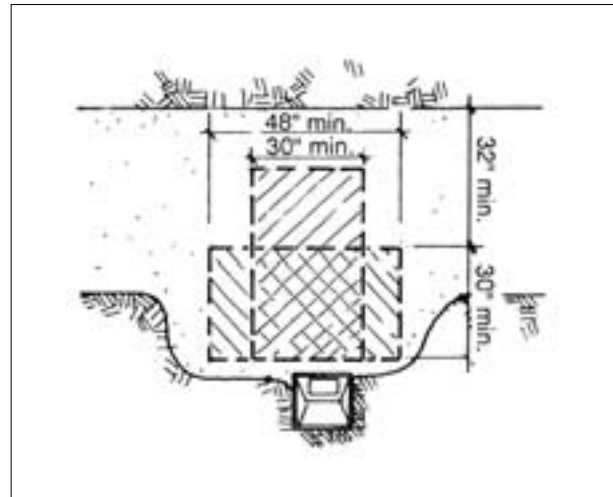


Figure 9-11

IX. SIGNAGE

A. Accessible camping spaces shall be designated by the International Symbol of Accessibility (ISA) (**Figure 9-12**).

99AG-16.17.1.3

B. Signage is not required where sites are assigned upon arrival or through a reservation system, or where all sites are accessible.

99AG-16.17.1.3

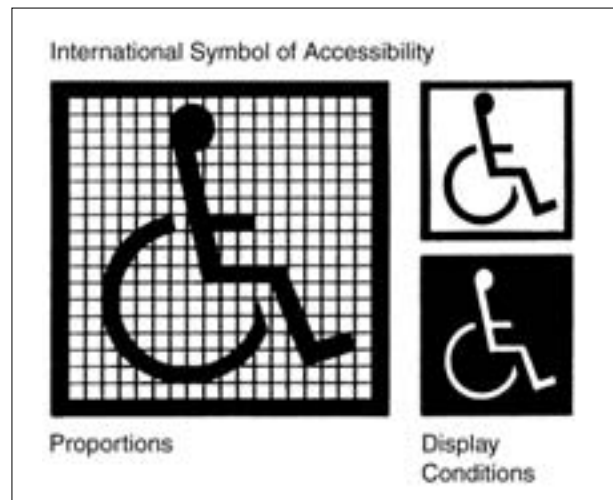


Figure 9-12

Concessions

I. CONCEPT

A. Concessions generally provide supplemental services and activities within State Park units. All concessions in State Parks must provide access for visitors with disabilities.

B. In order for all visitors to participate in park programs and experiences, concessionaires must provide services at accessible locations.

II. GENERAL

A. All concessions contracts held by the Department will be in compliance with accessibility standards established by Federal, State and Department mandates.

B. All new or renewed concession contracts must include the following Concessions boilerplate paragraphs:

“Without limiting Concessionaire’s responsibility under this contract for compliance with all laws, with regard to all operations and activities that are the responsibility of Concessionaire under this contract, Concessionaire shall be solely responsible for complying with the requirements of the Americans With Disabilities Act of 1990 (“ADA”) [Public Law 101-336, commencing at Section 12101 of Title 42, United States Code (and including Titles I, II, and III of that law)] and the Rehabilitation Act of 1973, and all related regulations, guidelines, and amendments to both laws.”

“With regard to facilities for which Concessionaire is responsible for operation, maintenance, construction, restoration, or renovation under this contract, Concessionaire shall be responsible for compliance with Government Code Section 4450, et seq., Access to Public Buildings by Physically Handicapped Persons, and Government Code Section 7250, et seq., Facilities for

Concessions

Handicapped Persons, and any other applicable laws. Written approval from State is required prior to implementation of any plans to comply with accessibility requirements.”

- C. Service machines used in concessions must comply with appropriate standards. *(Refer to Service Machines, Section 33, for more information.)*

III. COMPLIANCE

A. Districts should contact the Accessibility Section to ensure that new concessions will meet accessibility standards.

B. Annual concessionaire evaluations completed by districts will include access compliance criteria.

Curb Ramps

I. CONCEPT

A. Curb ramps are required to be located at pedestrian crosswalks wherever the accessible path of travel requires the pedestrian to transition from, through or onto a raised curb.

ADAAG-4.7.1/CBC-1127B.5.1

B. Wherever vehicular surfaces are marked for a pedestrian crosswalk, the curb ramp must terminate within the crosswalk area.

ADAAG-4.7.9/CBC-1127B.5.1

C. Curb ramps shall be located to prevent obstruction by parked cars.

ADAAG-4.7.8/CBC-1127B.5.9

II. GENERAL

A. The minimum width of the curb ramp shall be 48" (**Figures 11-1 & 11-2**).

CBC-1127B.5.2

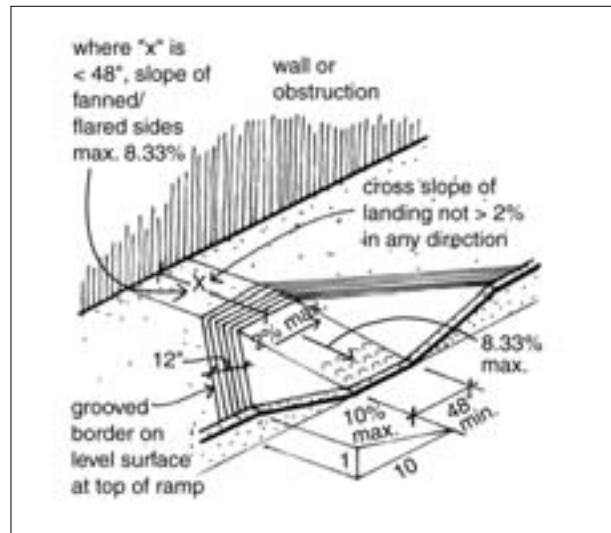


Figure 11-1

Curb Ramps

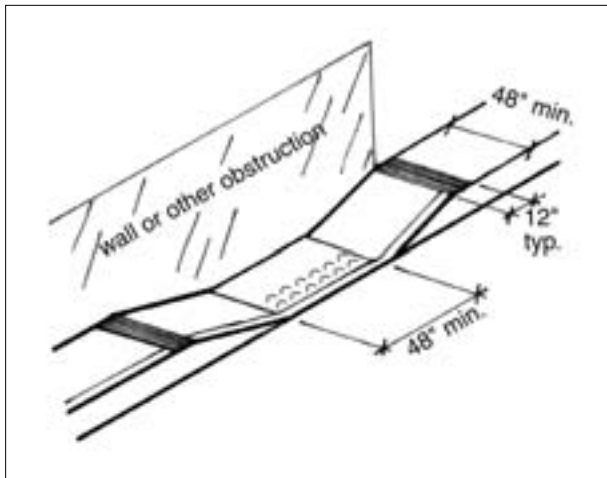


Figure 11-2

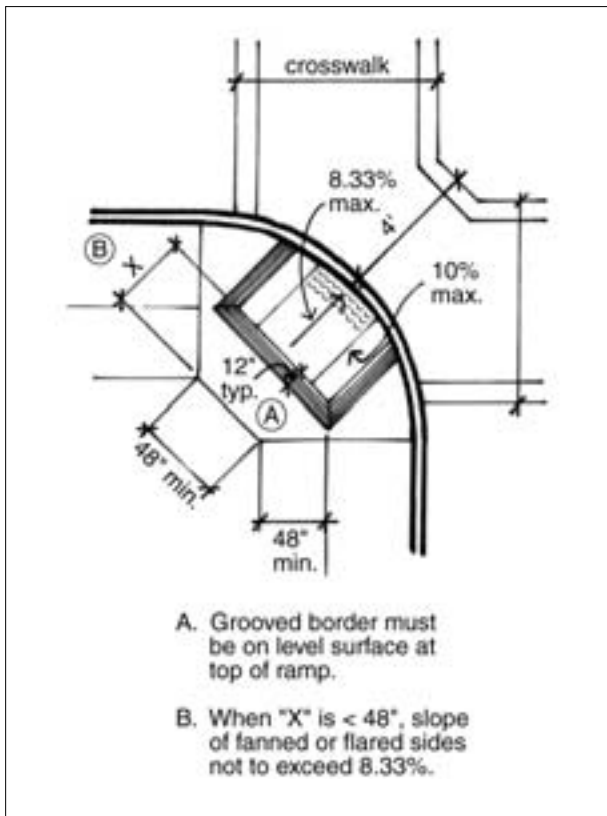


Figure 11-3

B. The maximum slope of the curb ramp shall be 8.33% (**Figures 11-1 & 11-3**).

CBC-1127B.5.3

C. Where fanned or flared sides are installed to adjoin the curb ramp, the maximum slope of the flared sides shall be 10% (**Figure 11-1**).

CBC-1127B.5.3

D. A level landing 48" deep shall be provided at the upper end of each curb ramp over its full width or the slope of the fanned or flared sides cannot exceed 8.33% (**Figures 11-1 & 11-3**).

CBC-1127B.5.4

E. The slope of the adjoining gutters, road surfaces and the accessible route at either end of the curb ramp shall have a maximum slope of 5% for a minimum run of 48".

CBC-1127B.5.3

F. The surface of the curb ramp and its flared sides shall be stable, firm and slip resistant. It shall also be of a contrasting finish from that of the adjacent sidewalk.

ADAAG-4.5.1/CBC-1127B.5.6

III. DETAILS

A. Curb ramps shall have a grooved border 12" wide at the level surface of the sidewalk along the top and each side of the ramp with grooves spaced $\frac{3}{4}$ " apart and $\frac{1}{4}$ " deep (**Figure 11-4**).

CBC-1127B.5.7

B. Where required, curb ramps shall have a detectable warning in the form of truncated domes with an in-line grid pattern that extends 24" min. in the direction of travel and 36" in width. Domes shall be safety yellow in color. (For additional information, contact the Accessibility Section and also see CBC1133B8.3)."

CBC1127B.5.8

C. Built up curb ramps shall be located outside vehicular traffic lanes, parking spaces and access aisles.

ADAAG-4.7.6/CBC-1129B.4.3

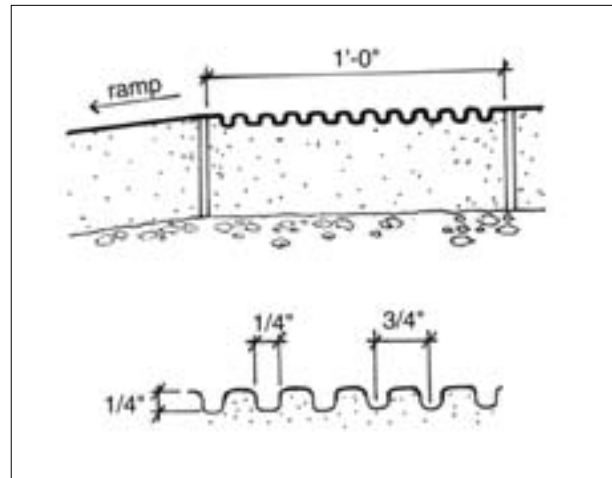


Figure 11-4

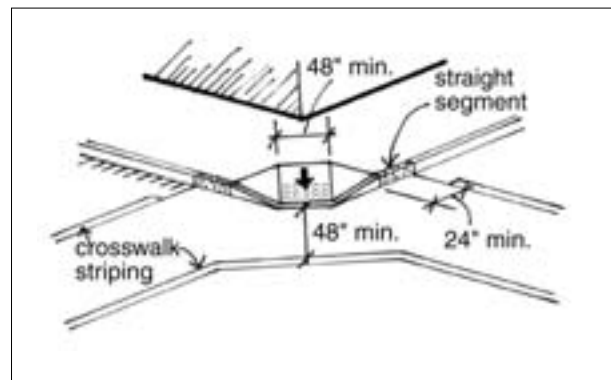


Figure 11-5

IV. DIAGONAL RAMPS

A. Well-defined edges of diagonal (corner type) ramps shall be parallel to the direction of traffic flow (**Figure 11-5**).

ADAAG-4.7.10/CBC-1127B.5.10

Curb Ramps

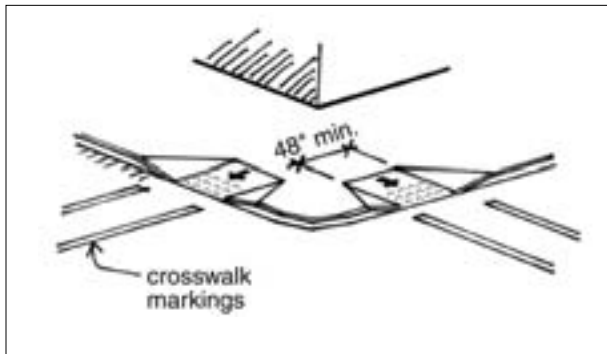


Figure 11-6

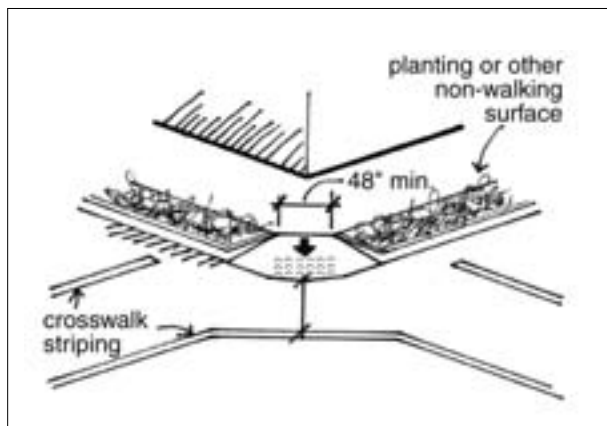


Figure 11-7

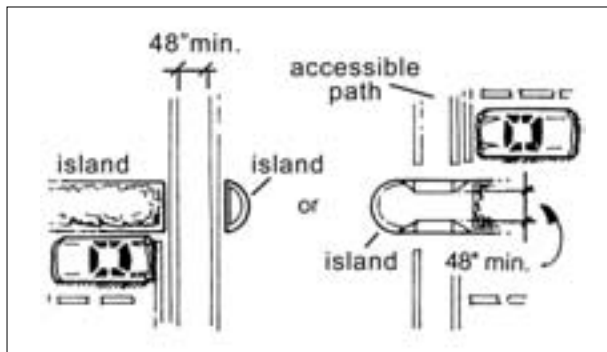


Figure 11-8

B. There shall be a 48" minimum clear space at the bottom of diagonal curb ramps. The clear space must be located within the marked crossing, if marked crossings are provided (**Figures 11-5, 6, 7**).

CBC-1127B.5.10

C. Where provided, flared sides on the diagonal curb ramps shall have 24" long segments of straight curb on each side of the curb ramp. The flared sides shall be within the marked crossing (**Figure 11-5**).

ADAAG-4.7.10/CBC-1127B.5.10

V. ISLANDS

A. If an island exists, and the curb ramp is part of the island, there shall be either an accessible path cut through the island at street level or curb ramps on both approach ends with a 48" wide level area in between (**Figure 11-8**).

ADAAG-4.7.11

Dining and Banquet Areas

I. CONCEPT

A. Dining and banquet facilities shall be made accessible to persons with disabilities, including food service and sales counters, with appropriate seating and wheelchair seating integrated throughout.

B. There shall also be an accessible route of travel to and from the dining/banquet area. (*Refer to Routes of Travel, Section 32.*)

B. Access to such seating shall be provided with main aisles no less than 36" in clear width. Accessible seating shall be integrated with general seating to allow a reasonable selection of seating areas and to avoid having one area specifically highlighted as the area for persons with disabilities (**Figure 12-1**).

CBC-1104B.5.4

II. SEATING

A. Wheelchair access shall be provided to all areas. Each dining or banquet area shall have one wheelchair seating for every 20 seats where each type of functional activity occurs, with at least one wheelchair seating space per functional area. (*Refer to Buildings, Section 7.*)

CBC-1104B.5.4

Dining and Banquet Areas

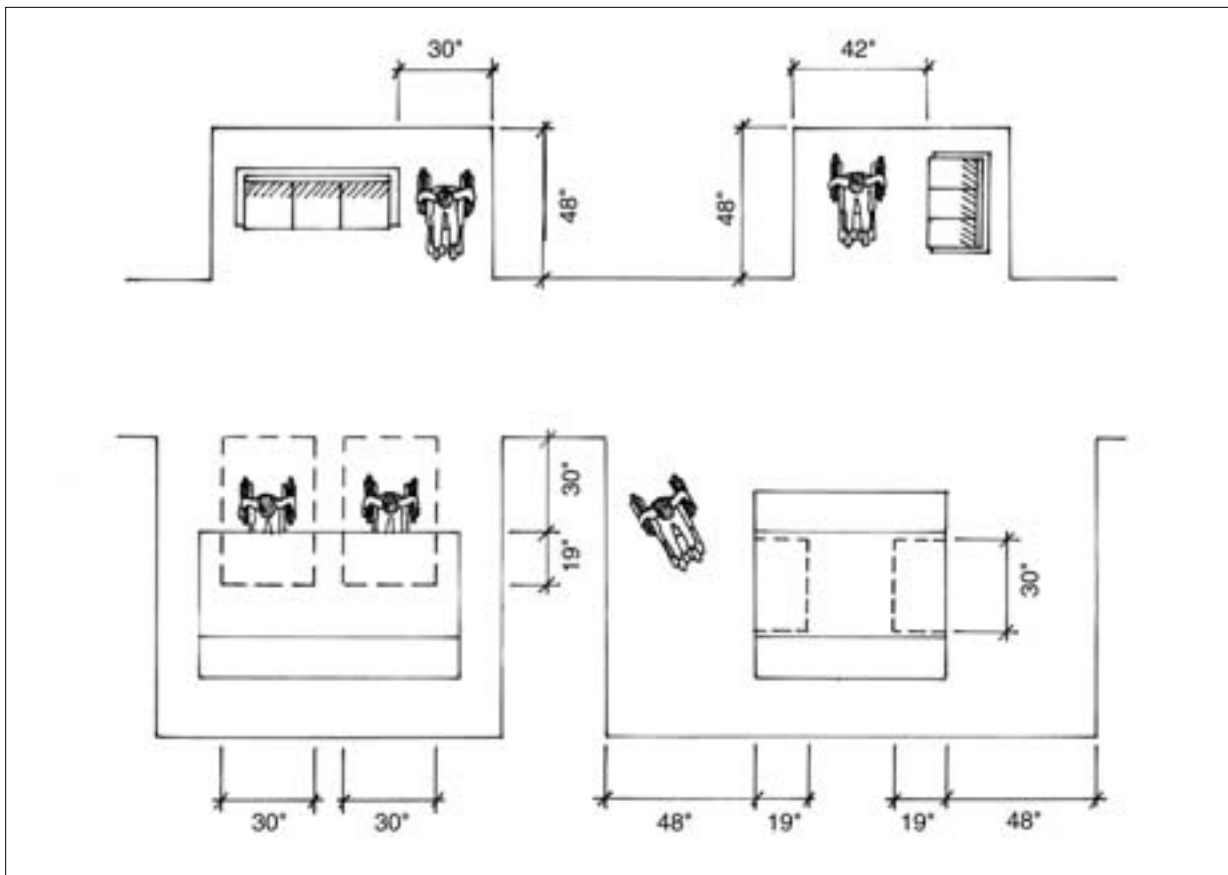


Figure 12-1

III. KNEE CLEARANCE

A. Knee space at tables and counters shall be a minimum of 27" high (recommended 29"), 30" wide and 19" deep.

CBC-1122B.3

B. Knee clearance is not required at a checkout counter or service counter.

CBC-1122B.3

IV. HEIGHT OF TABLES/COUNTERS

A. The tops of accessible tables and counters shall be 28" to 34" above the floor or ground. Where a single counter contains more than one transaction, at least 5%, but not less than 1, shall be as shown in (Figure 12-2).

CBC-1122B.4

B. Food service aisles shall be a minimum of 36" of clear width with a preferred width of 42" where passage of stopped wheelchairs by pedestrians is desired. Tray slides shall be mounted no higher than 34" above the floor, if self-service.

ADAAG-5.5/CBC-1104.B.5.5

V. REACH

A. Clear Floor Space

1. Clear floor space, at least 30"x 48", shall be created to allow either forward or parallel approach by a person in a wheelchair (Figure 12-3 & 12-4).

CBC-1118B.4.1

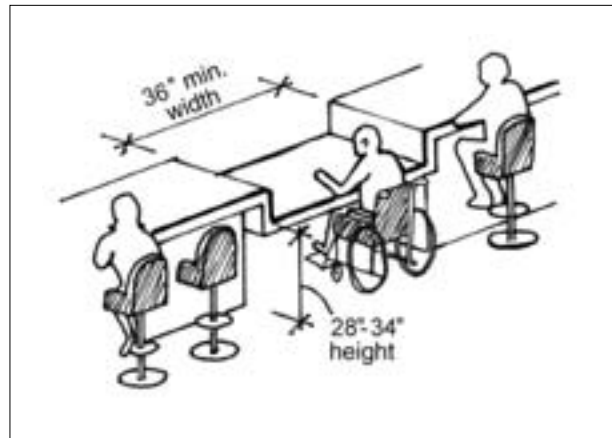


Figure 12-2

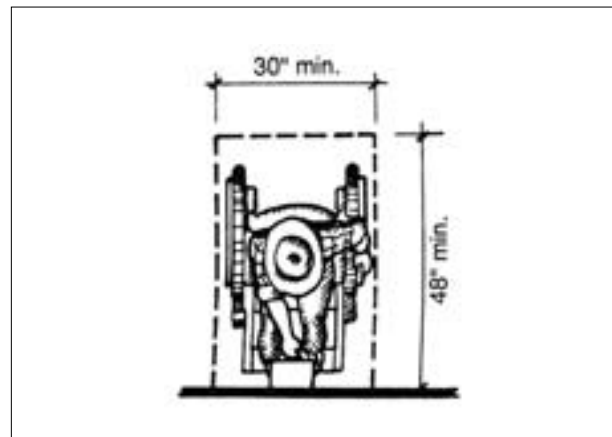


Figure 12-3

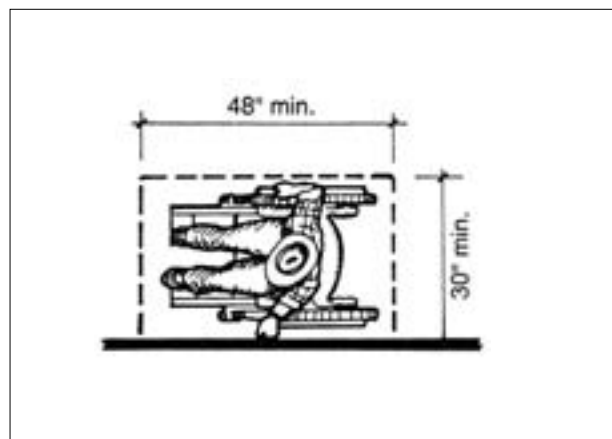


Figure 12-4

Dining and Banquet Areas

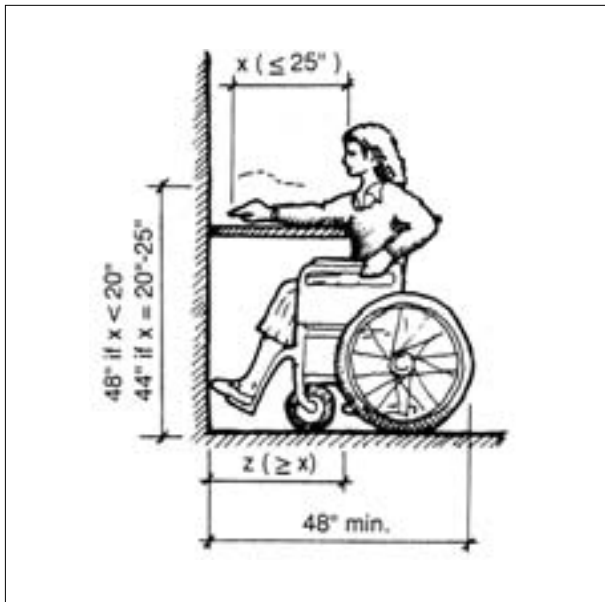


Figure 12-5

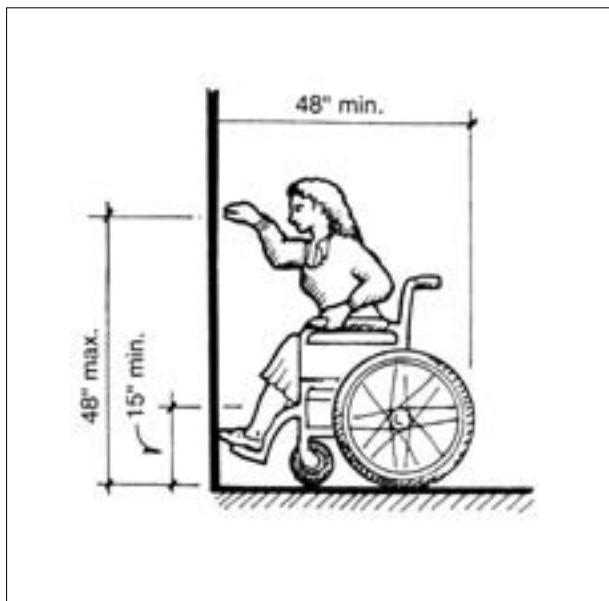


Figure 12-6

2. Clear floor or ground space for wheelchairs may be part of the knee space required under some items (**Figure 12-5**).

CBC-1118B.4.1

B. Tableware, dishware, condiments, food, beverage shelves and dispensing devices shall be located within accessible reach ranges:

1. Front (Forward) Reach
 - a. Front accessible forward approach with forward reach – item must be positioned between 15" and 48" from the floor with the maximum horizontal reach over an obstruction not to exceed 20" (**Figure 12-6**).
 - b. A maximum reach over an obstruction of 25" is allowed if the maximum height of the item is 44" (**Figure 12-5**).

CBC-1118B.5

CBC-1118B.5

2. Side Reach

- a. Parallel approach in a wheelchair with side reach – item must be positioned between 9" and 54" from the floor with the maximum horizontal reach over an obstruction not to exceed 10" (**Figure 12-7**).

CBC-1118B.6

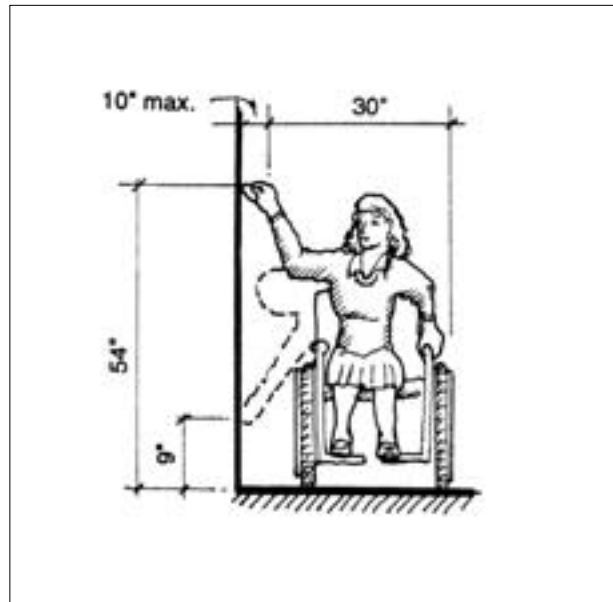


Figure 12-7

- b. A maximum reach over an obstruction of 24" is allowed if the maximum height of the item does not exceed 46" (**Figure 12-8**).

CBC-1118B.6

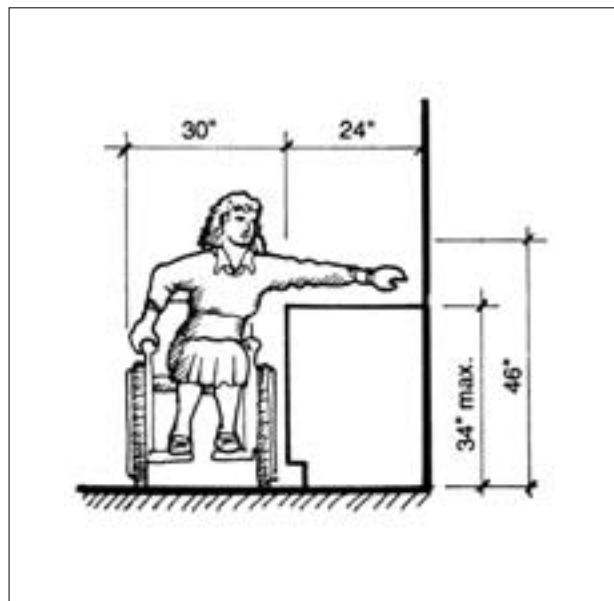


Figure 12-8

Doorways

I. CONCEPT

A. Doorways are an integral part of the route of travel and should be considered for accessibility whether they are on interior building routes or on exterior routes. Doorways are also used as emergency exits and shall be accessible as part of the evacuation plan for the facility.

II. ACCESS ROUTES

A. All entrances and exterior ground floor exit doors shall be accessible. During periods of partial or restricted use, doorways that are primary entrances shall be accessible.

CBC-1133B.1.1.1.1-2

B. An accessible door or gate shall be made available adjacent to each turnstile exit or entrance. These doors or gates shall remain unlocked during business hours and shall not activate an alarm audible to the general public.

CBC-1133B.2.3.4

III. SURFACES

A. Doormats that are recessed shall be adequately anchored to prevent interference with wheelchair traffic.

CBC-1133B.1.1.1.3

IV. CLEARANCES

A. Doorways shall allow for the installation of a door 80" high and 36" wide.

CBC-1003.3.1.3a/CBC-1133B.2.2

Doorways

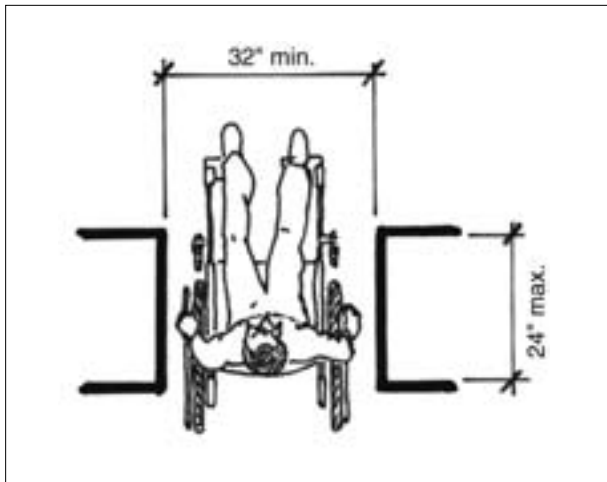


Figure 13-1

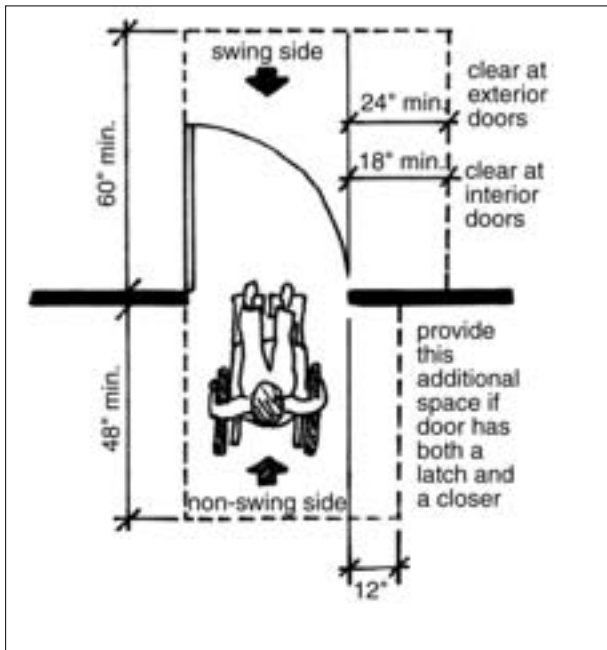


Figure 13-2

B. The clear opening of doorways shall be no less than 32". Clear width is measured parallel to the threshold, from the inside edge of the doorstop on the strike-side to the door edge, with the door opened perpendicular to the threshold (**Figure 13-1**).

CBC-1133B.1.1.1.1

C. If the depth of the doorway opening is greater than 24", there must be a minimum aisle width of 36".

CBC-1133B.1.1.1.1

D. There must be a level, clear area on both sides of the door measuring 60" in the direction of the door swing (swing side) and 48" opposite the direction of the door swing (non-swing side), measured at right angles to the plane of the door when closed (**Figure 13-2**). The level clear space must be as wide as the door plus a required strike-edge clearance space. Strike-edge clearance is the clear space at the latch side of the door. Strike-edge clearance varies with the type of door and approach as follows:

CBC-1133B.2.4.2

1. Front approach door on swing side – 18" minimum strike edge of interior door, 24" exterior door, with 24" preferred.

2. Front approach door on non-swing side – 12" minimum strike edge, required if door has a closer and a latch.
3. Latch side approach on swing side – 24" minimum strike edge (Figure 13-3).
4. Latch side approach on non-swing side – 24" minimum strike edge.
5. Hinge side approach on swing side – 36" minimum strike edge (Figure 13-4).
6. Hinge side approach on non-swing side – 0" minimum strike edge, but total width must be 54" or greater.

E. For recessed doors, where the plane of the doorway is offset 8" or more from any obstruction within 18", measure laterally on latch side, the door shall be provided with maneuvering clearance for front approach (Figure 13-5).

CBC-1133B.2.5.3

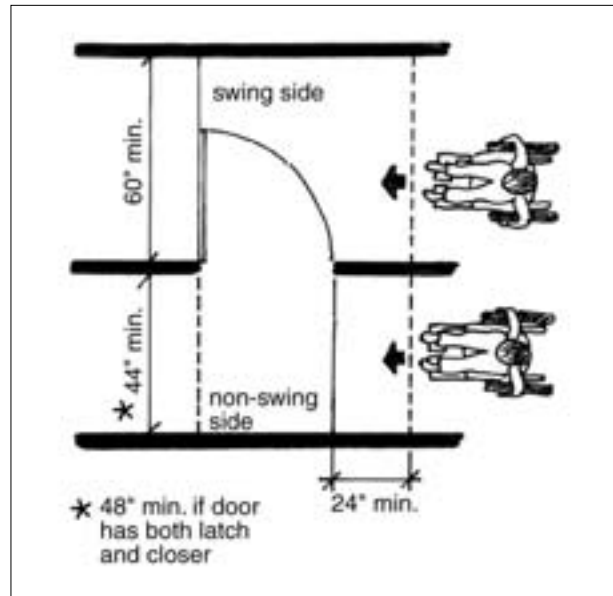


Figure 13-3

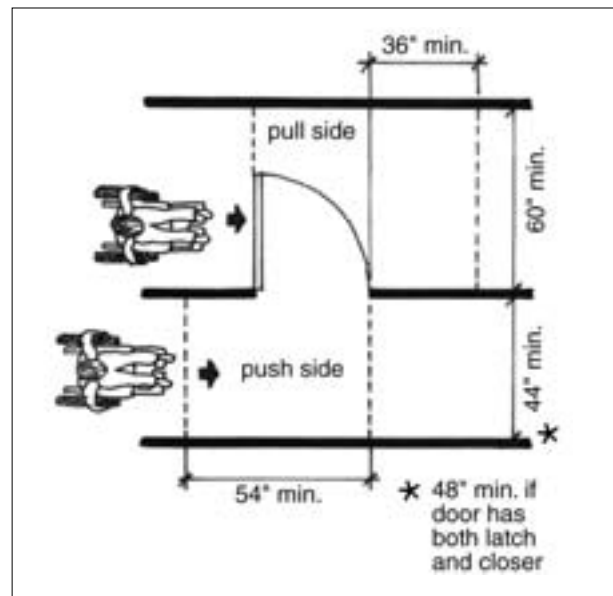


Figure 13-4

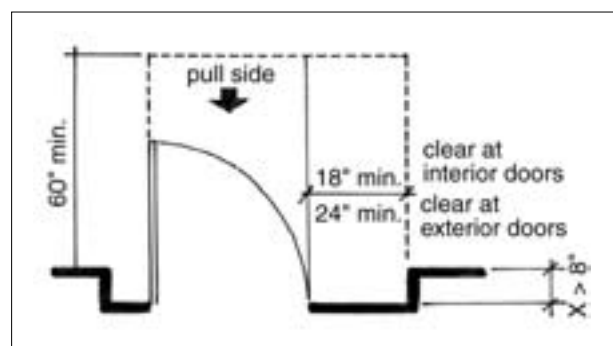


Figure 13-5

Doorways

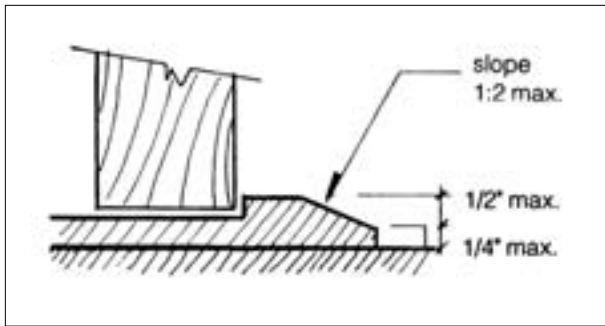


Figure 13-6

V. THRESHOLDS

A. Thresholds shall have a maximum height of $\frac{1}{2}$ ". A change in level between $\frac{1}{4}$ " and $\frac{1}{2}$ " shall be beveled with a slope no greater than 50%. Changes in level greater than $\frac{1}{2}$ " shall be accomplished by means of a ramp (**Figure 13-6**).

CBC-1133B.2.4.1

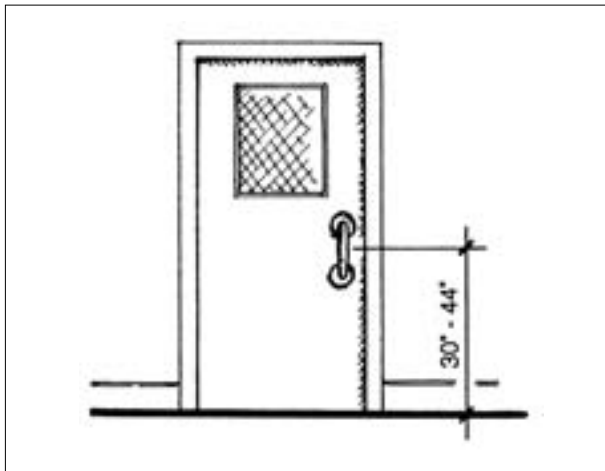


Figure 13-7

VI. HARDWARE

A. Hand-activated door opening hardware shall be centered between 30" and 44" above the floor (**Figure 13-7**).

CBC-1133B.2.5.2

B. Openers must not require tight grasping, pinching or twisting of the wrist to operate.

CBC-1003.31.8

C. When sliding doors are fully open, operating hardware must be exposed and usable from both sides.

ADAAG-4.13.9

D. Interior and exterior doors must not require more than 5 lbs. of force to operate. Compensating devices or automatic door operators may be used to meet this standard.

CBC-1133B.2.5

E. When fire doors are required, the maximum force to operate the door may be increased to the minimum allowable by the appropriate administrative authority not to exceed 15 lbs.

CBC-1133B.2.5

F. Automatic or power-assisted doors shall not open faster than 3 seconds and shall not require more than 15 lbs. of pressure to stop the door movement.

ADAAG-4.13.9

G. If the door has a closer, it must take at least 3 seconds to move the door from an open position at 70° to a point 3" from the latch measured to the leading edge of the door.

ADAAG-4.13.10

VII. KICKPLATES

A. The bottom 10" of all doors, except automatic and sliding, shall have a smooth, uninterrupted surface to allow the door to be opened by a wheelchair footrest without creating a trap or hazardous condition (**Figure 13-8**).

CBC-1133B.2.6

VIII. SIGNAGE

A. Accessible building entrances shall be identified with the International Symbol of Accessibility (ISA). (*Refer to Signage, Section 34*).

CBC-1117B.5.7

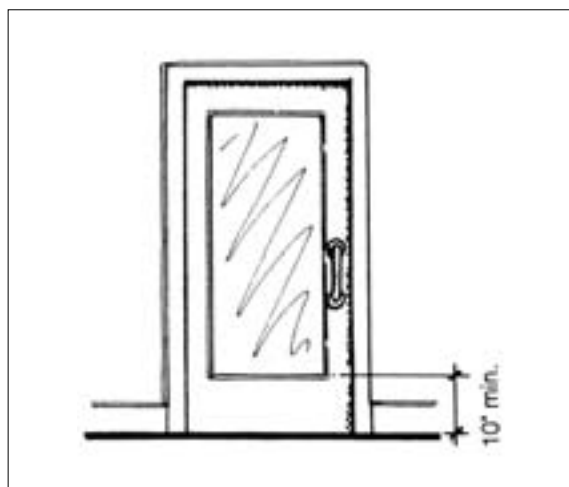


Figure 13-8

Dormitories/Hotels/ Seasonal Housing

I. CONCEPT

A. Dormitories and similar places of seasonal lodging shall have the following sleeping places accessible together with their sanitary facilities. (*Refer to Restrooms, Section 31.*)

ADAAG-9.1.1/CBC-1111B.2-4

B. Accessible sleeping places shall be dispersed among the various classes of sleeping accommodations to provide a range of options applicable to size and amenities provided.

CBC-1111B.4.1

C. Additional Accessibility
Required in Guest Rooms or Suites:

Total Number of Rooms	Fully Accessible Rooms	Plus Additional Accessible Rooms with Roll-In Showers	Additional Rooms Equipped for Hearing Impaired
1 to 25	0	1	1
26 to 50	1	1	2
51 to 75	3	1	3
76 to 100	4	1	4
101 to 150	5	2	5
151 to 200	6	2	6
201 to 300	7	3	7
301 to 400	8	4	8
401 to 500	9	4	9
501 to 1,000	2% of total	4 plus one for each add'l 100 over 400	2% of Total
1,001 and over	20 plus 1 for each 100 over 1,000		20 plus 1 for each 100 over 1,000

Dormitories/Hotels/Seasonal Housing

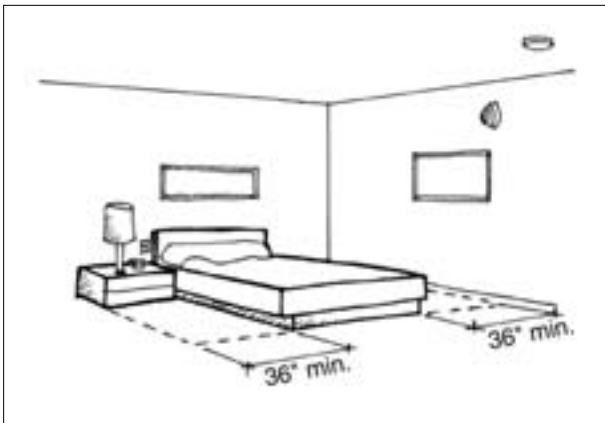


Figure 14-1

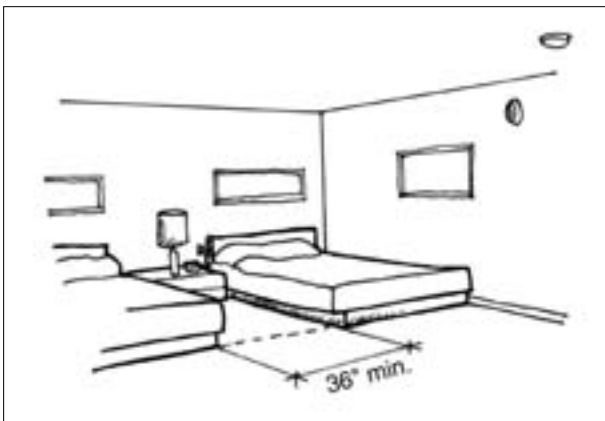


Figure 14-2

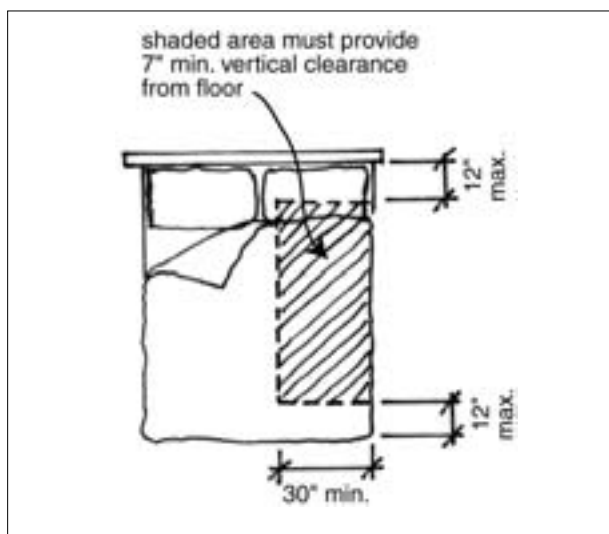


Figure 14-3

D. Seasonal housing, including units, sleeping rooms, suites and common areas, shall be on an accessible route of travel. (*Refer to Buildings, Section 7, and Routes of Travel, Section 32.*)

CBC-1114B.1-2

E. Parking and common use recreation facilities shall be accessible.

CBC-1129B.1

II. SPECIFICATIONS

A. Accessible sleeping rooms shall provide a minimum clear 36" wide maneuvering space located along both sides of a bed, except where two beds are provided, provide 36" wide minimum maneuvering space between the beds (**Figures 14-1 & 14-2**).

B. In addition, there shall be a clear space under the bed for the use of a personal lift device that meets the following dimensions:

1. Clear space should be on a long side of the bed adjacent to an accessible aisle.
2. Clear space shall extend horizontally to parts not more than 12" from each end of the bed, vertically not less than 7" and not less than 30" deep (**Figure 14-3**).

ADAAG-9.2.2(2)/CBC-1111B.4.3

C. Additional rooms for the hearing impaired shall be provided (refer to chart).

CBC-1111B.4

D. Each additional room shall have visual fire alarms and notification devices to alert room occupants of incoming telephone calls or a knock or doorbell.

ADAAG-9.3.1/CBC-1114B.2.4/CBC-1111B.4.5-CBC-1111B4.5.2

E. Doors and doorway passages must be accessible. (*Refer to Doorways, Section 13.*)

F. Bathroom doors must open in a way that does not interfere with clear space required near any fixtures.

CBC-1111B.4.6.1

G. Bathrooms must provide a minimum of 30" x 60" clear floor space.

CBC-1111B.4.6.2/ADAAG-9.2.2(6)(e)

III. MISCELLANEOUS

A. If provided, telephones in rooms for persons with hearing impairments shall have volume controls.

B. If provided, there shall be an accessible shower or bathtub in each accessible sleeping room.

C. As needed, refer to sections on Storage Areas, Buildings (reaches), Service Machines, Public Telephones, Kitchens and/or Alarms.

Dressing Rooms

I. CONCEPT

A. If permanent dressing rooms are provided at the site, regardless of location, they shall be constructed to comply with all subsections of Title 24 of the California Code of Regulations.

CBC-1114B.1

B. Dressing rooms shall be accessible and on an accessible route of travel.

CBC-1114B.1.2

C. The minimum number of dressing rooms made accessible shall be 5%, but never less than 1, for each type of use in each cluster of dressing rooms.

CBC-1110B.1.7

II. AMENITIES

A. Fixed benches shall be at least 24" wide and 48" long and set 17" to 19" above the finished floor elevation along the wall with the longest dimension (Figure 15-1).

CBC-1110B.1.7

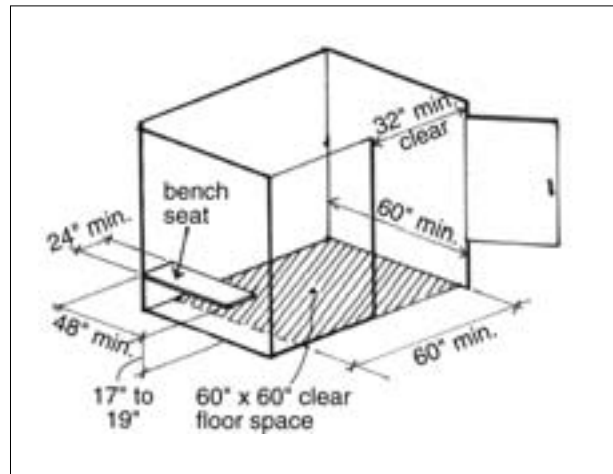


Figure 15-1

Dressing Rooms

B. Fixed benches shall have a slip resistant surface, not allow water collection and resist 250 lbs. force in any direction.

ADAAG-4.35.4/CBC-1115B.8.3.3

C. Clothing hooks, when provided, shall be located no greater than 48" above the finished floor elevation (**Figure 15-2**).

CBC-1110B.1.7

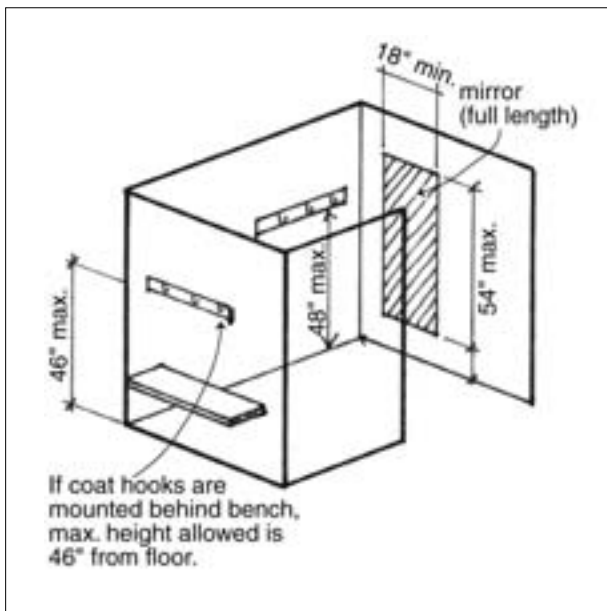


Figure 15-2

D. Mirrors, when provided, shall be located adjacent to and usable from the bench and standing position and measure at least 18" wide and 54" long, with the lower edge within 20" from the finished floor elevation (**Figure 15-2**).

CBC-1110B.1.7

III. CLEAR SPACES

A. Dressing rooms shall have a 60" x 60" clear space, unobstructed by an inward swinging door (**Figure 15-1**).

CBC-1110B.1.7

B. Clear floor space shall be provided alongside the bench to allow for a parallel transfer from a wheelchair to the bench.

CBC-1110B.1.7

IV. ENTRY

A. Refer to Doorways, Section 13.

Drinking Fountains

I. CONCEPT

A. Where drinking fountains are provided, there shall be accessible drinking fountain(s).

B. The drinking fountain must be on an accessible path of travel. (*Refer to Routes of Travel, Section 32.*)

C. The fountain shall not encroach into an accessible route.

CBC-1117B.1.2

D. There shall be a clear, level space of at least 30" x 48" in front of the fountain. (**Figure 16-1**).

CBC-1117B.6.2/CBC-1118B.4

II. WALL MOUNTED UNITS AND POST MOUNTED UNITS

A. Where only one drinking fountain is provided, the use of a "Hi-Low" fountain can be used for accessibility.

CBC-1117B.1.1

B. If more than one drinking fountain is provided, at least 50% must be accessible.

ADAAG-4.1.3(10)

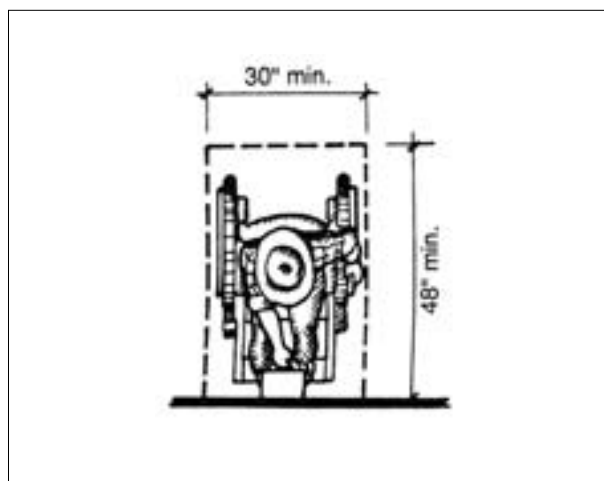


Figure 16-1

Drinking Fountains

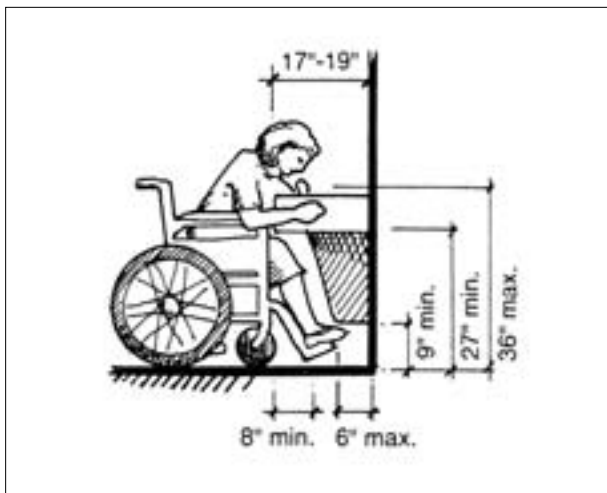


Figure 16-2

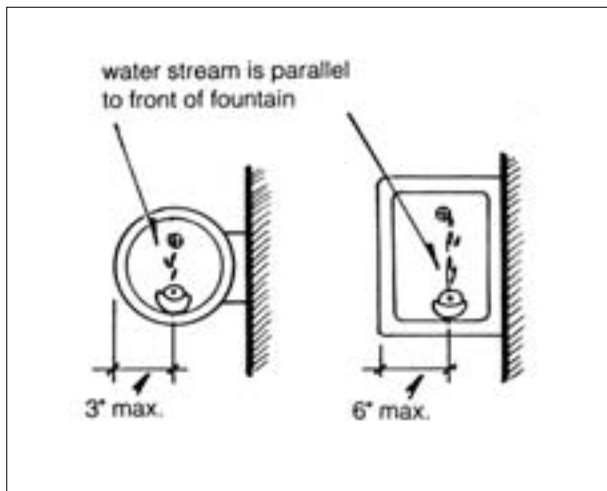


Figure 16-3

E. The fixture shall be a minimum 18" deep (**Figure 16-2**).

CPC-1507.3.1

F. Clear knee space beneath the fountain shall be a minimum of 27" high, 30" wide and 8" deep, with additional minimum toe space of 9" high by 17" deep (**Figure 16-2**).

CPC-1507.3.1

G. The water nozzle shall be located a maximum 36" above the ground and a maximum 6" from the front of the unit, with the water flow direction parallel to the front edge of the unit and to a 4" height minimum. If the basin is round or oval, the spout must be within 3" of the front (**Figures 16-2 & 16-3**).

ADAAG-4.15.2-3/CPC-1507.3.3

H. Activation shall be by means of lever controls or a wide, non-recessed press bar located at a maximum of 6" from the front edge of the unit and requiring no more than 5 lbs. of pressure, without tight grasping, pinching or twisting hand motion.

ADAAG-4.15.3/CPC-1507.3.4/CBC-1117B.6.4

III. WALL MOUNTED UNITS

A. Where provided, wall mounted units shall be located completely within an alcove, or with wing walls, or so as not to encroach into pedestrian ways (**Figure 16-4**).

CBC-1117B.1.2

1. Alcove or wing wall of fountain shall be no less than 32" wide and 18" deep.

CBC-1117B.1.2

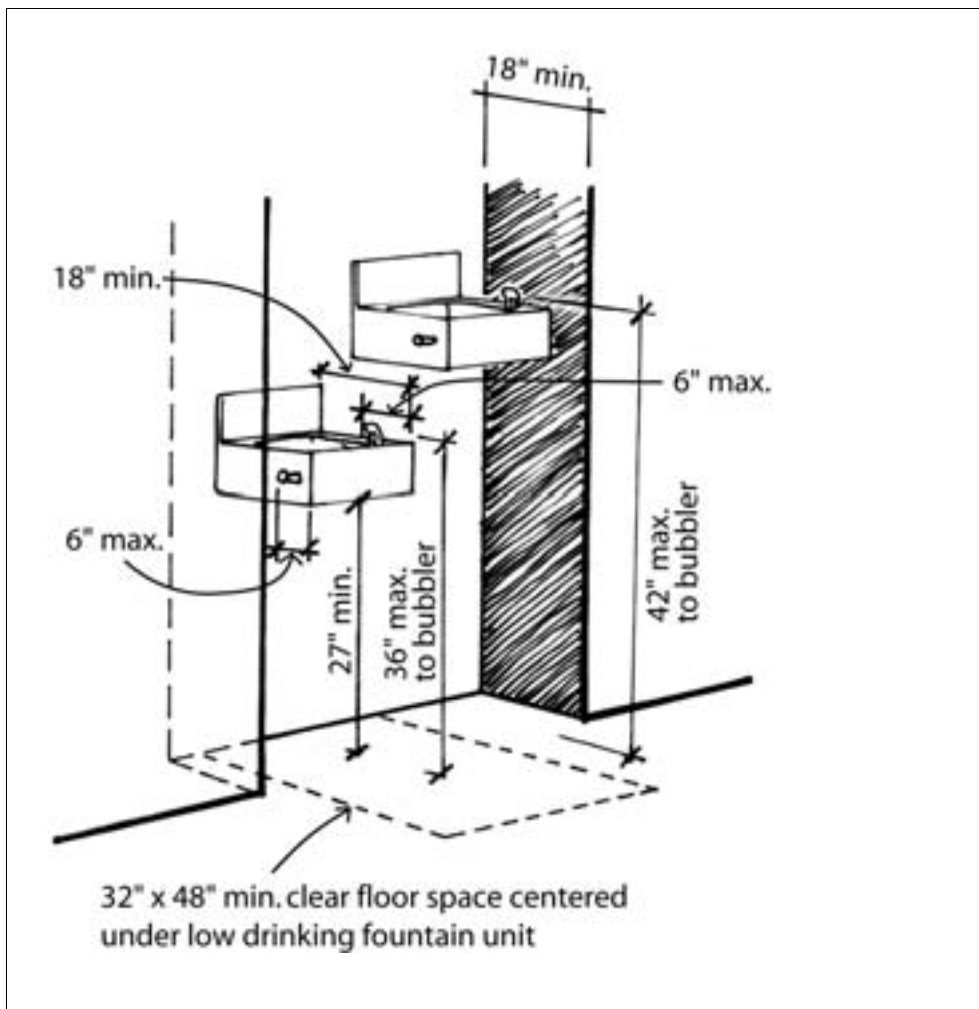


Figure 16-4

Equestrian Facilities

I. CONCEPT

A. Equestrian activities consist of either the facility to rent and ride or equestrian use that allows the visitor to bring his/her horse and trailer to ride.

B. Access to equestrian activities involves two basic considerations:

1. Access to the place where horses are available.
2. Transfer capabilities onto and off of the horse that are safe and secure. Such transfer shall be accomplished by one of three methods:
 - a. Raising the level of the rider to that of the horse's stir-rups – by using a mounting platform.

- b. Lowering the level of the horse in respect to the level of the rider – such as a 2' deep ground recess for the horse.
- c. Providing a combination of (a) and (b).

II. LOCATION

A. Equestrian facilities shall be located on an accessible path of travel with appropriate support facilities, such as signage, restrooms and parking.

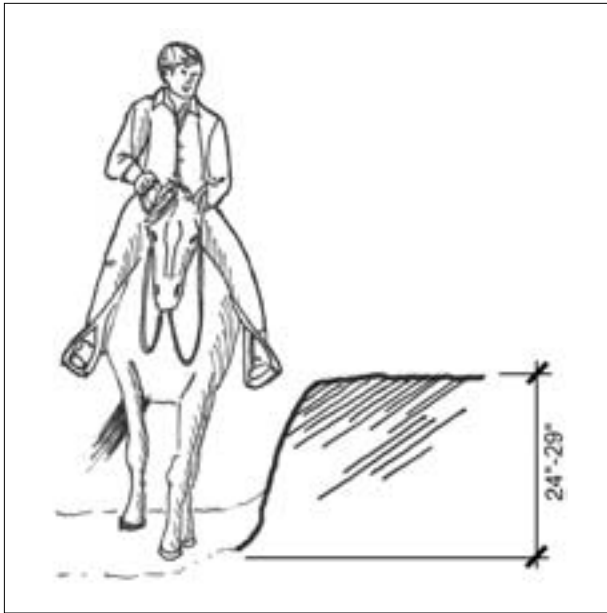


Figure 17-1

III. MOUNTING PLATFORM

A. An accessible mounting platform should be provided to facilitate movement to and from the horse. It shall have (Figure 17-1):

1. A platform height above grade 24" to 29" as measured at the place of mounting the horse.
2. Access to the platform can be by means of a route with a maximum slope of 8.33%.
3. A 2" high curb at all edges, except for the opening on the mounting side.
4. A recommended level surface area of 60" x 60".
5. Site selection for mounting/dismounting activities could minimize or eliminate the need for a ramp.

IV. AMENITIES

A. Amenities, such as fixed benches, lockers, hitching posts and drinking fountains, should be accessible. (Refer to Drinking Fountains, Fixed Benches, Storage Areas/Lockers sections, etc.)

Exhibits

I. CONCEPT

A. Accessible exhibit design shall include, but not be limited to, font style and size, color contrast between text and/or objects and background, lack of reflectance or glare, tactile exhibits, interactive exhibits, controls, exhibit mounting heights and positioning of exhibits on path of travel.

B. Exhibits shall be designed to allow people with physical and sensory disabilities to access and experience the material presented.

C. Models, touchable and hands-on exhibits may be better teaching tools that reach broader audiences than purely graphical exhibits and shall be considered for inclusion where possible.

D. Where possible and appropriate, exhibit contents shall include the experiences and “voices” of persons with disabilities.

E. For additional guidance on accessible exhibits, see technical memo dated March 4, 2005.

II. BASIC ELEMENTS OF ACCESSIBLE EXHIBIT DESIGN

A. Fonts

1. Typeface or font families used for exhibit text and labels shall be easy to read for persons with varied levels of vision. Such typefaces include sans serif fonts or fonts with simple, clean serifs.

a. Some examples of legible sans serif fonts include Arial, Comic Sans, Futura, Optima, Tahoma, and Trebuchet.

b. Some examples of legible serif fonts include Albertus Medium, Bookman, Caslon, Clarendon, Lydian, Novarese, Tiresias, and ITC Tiepolo.

2. Avoid fonts with strokes that are very heavy, thin, light or decorative and those whose letters are either very close together (condensed) or widely spaced. The number of typefaces in a given exhibit should not exceed two or three.
3. Spaces between lines of type (leading) should make it easy to locate the next line. Leading at least 25% taller than the height of the lowercase font is suggested, and this percentage may increase slightly as the font size increases.
4. Font Styles. Italics are often hard to read and shall be limited to book titles, foreign names and short quotes. Boldface should generally not be used for entire sections. Text that uses upper and lowercase letters in typical sentence style is easier to read than all uppercase letters.
5. Font sizes for main body of text shall meet or exceed the minimums required for the horizontal viewing distance of the eyes to the object, according to the chart below. Minimum height of characters shall be measured using the uppercase X. Titles and Headings will be larger than minimums. Captions may be smaller, but those conveying interpretive

information need to be at least 24 point. Design credits may be small.

6. Print Height Minimums

Height of Print	Horizontal Distance Eye-to-Object
$\frac{3}{8}$ "	up to 39"
$\frac{3}{4}$ "	up to 78"
$1 \frac{1}{8}$ "	up to 118"

(Adapted from Smithsonian Institute exhibit guidelines)

B. Text and Labels

1. Words are easier to read in horizontal lines. Artistic word shapes must be kept to a minimum or repeated in linear format, if used.
2. Maintaining a line length between 45 and 60 characters with margins flush left and ragged right is optimal for many readers with visual or learning disabilities. Where columns of text are used, space between columns must be large enough so viewers do not read across columns.
3. Labels pertaining to pictures or objects shall be placed consistently throughout an exhibit.

4. Exhibit labels in cases or on shelves shall be placed at readable heights and angles for persons who are seated or standing. Avoid placing labels flat on horizontal shelf surfaces. Labels placed at 45 degree angles to front plane of case are generally easier to see.

C. Lighting and Contrasts

1. Characters and symbols shall contrast with their background, either dark characters on a light background or light characters on a dark background. A minimum of 70% contrast is recommended. Contrast percentage is calculated using the following formula $((B1 - B2) / B1) \times 100 = \text{Contrast}$. B1 = Light Reflective Value (LRV) of the lighter color and B2 = LRV of darker value. Please contact the Accessibility Section for more information.
ADAAG-4.30.5
2. Finishes shall be non-glare, eggshell or matte.
ADAAG-4.30.5
3. Lighting shall be planned to coordinate with conditions of exhibits so that glare from shiny objects can be avoided and so adequate lighting (100-300 lux or 10-30 foot-candles is recommended) is provided for the entire exhibit.
ADAAG-4.30.8
4. Text screened directly onto clear glass or Plexiglas is very difficult to see and shall not be used.
5. When not prohibited from doing so by conservation requirements, provide at least 100 lux (10 foot-candles) of light on an object. This is the minimum light level at which someone with low vision can see an object. If displaying sensitive materials that require a maximum of 50 lux (5 foot-candles), then:
 - a. Position the items to allow the visitor to approach them as closely as possible.
 - b. Light the environment with even light; do not spotlight an object.
 - c. Provide the highest contrasting background possible.
 - d. Present the objects in an alternate format, such as a reproduction or a brochure that can be viewed in a brighter location.
6. For objects that require a high mounting position and/or low lighting, laminated, high-contrast photographs located near the individual exhibits or centrally set within the exhibition serve those with low vision as well as those who use wheelchairs.

7. When choosing colors for fonts and backgrounds, research suggests that visibility for persons with low vision will be enhanced by considering the following:
 - a. Differences between foreground and background colors on labels or panels should be exaggerated. Lighten the lights and darken the darks to increase to 70% contrast.
 - b. Avoid contrasting colors from adjacent hue families in the color circle (such as orange and yellow, orange and red, yellow and green, blue and green, blue and violet) as they often lack adequate contrasts.
 - c. Even if they are from different hue families, contrasts between colors of similar lightness (such as gray-blue and gray-brown) are difficult for persons with certain color deficiencies to see.
 - d. If colors from the same hue families (blue and light blue, brown and tan, etc.) are used adjacent to each other, contrast should be exaggerated to reach 70%.

III. ALTERNATE FORMATS

- A. Exhibits that cannot be made physically accessible shall have alternatives such as captioned films, slide shows or photos.
- B. Exhibits shall have alternatives such as large print, audio, Braille, or tactile graphics. Large print text handouts shall be available for main body text located beyond optimal viewing range for its size or for any handouts printed at less than 18-point size. Verbal descriptions of exhibits may also be provided by docents or staff.
- C. For audio and visual components of exhibits:

Refer to Assistive Listening Devices, Section 2, and Audio-Visual Programs, Section 3.
- D. Audio or verbal descriptions shall provide concise, objective, critical information the listener needs but cannot see or read.
- E. Electronic versions of exhibits in TXT or PDF format may be offered as a take home alternative to Braille for persons with a screen reader.
- F. Availability of alternate formats and contact information shall be included on introductory panel and/or posted near exhibit.

IV. HANDS-ON AND INTERACTIVE MATERIALS

A. Provide models, either life-size or to scale, of rare or fragile objects that may not be touched. If the object is very large, a reproduction of a part of it should be available so that visitors can get an idea of its relative size.

B. Keep magnifiers handy for visitors to examine photographs, signs, artifacts, fossils and mounted specimens in the exhibits.

C. Exhibit objects to be picked up and/or handled for more than a few seconds shall be placed at a minimum height of 28" and at a maximum of 40" and within 18" horizontally.

D. Exhibit controls or other items to be briefly touched, such as push buttons, shall also be placed at a minimum of 28" and a maximum of 48" and within 18" across.

1. Earphones or speaking devices shall be mounted no higher than 40" and must be adjustable.
2. Knobs, handles, dials, and controls used on interactive exhibits shall be designed so they can be operated with a closed fist.

CBC 1117B.6.4

V. FLAT MOUNTED DISPLAYS

A. Flat-mounted or table top exhibits to be touched or closely approached, such as relief maps and tactile exhibits, shall allow for a clear knee space that is a minimum of 36" clear width and 27" clear height above the floor surface. Where it does not create a hazard for persons with low vision, 29" high knee space is recommended for wheelchair users (**Figure 18-1**).

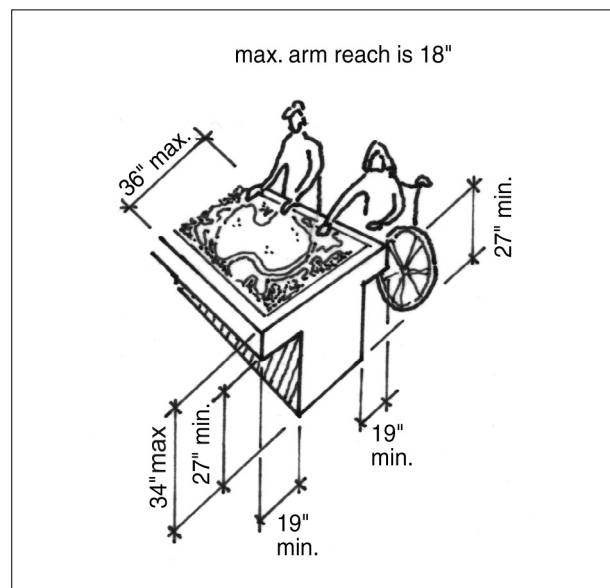


Figure 18-1

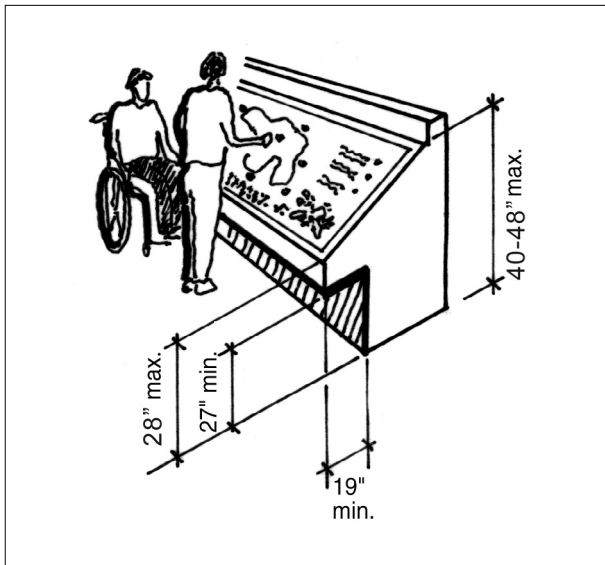


Figure 18-2

VI. ANGLE MOUNTED DISPLAYS

A. Angled exhibit panels on pedestals or supports shall be placed at angles from 30 to 60 degrees to the ground or floor. The lower horizontal edge of the panel must be mounted between 28" and 34" above the ground. The exact distance may vary according to the panel size, and the text size should conform to minimums (**Figures 18-2 & 18-3**). Contact the Accessibility Section for more details.

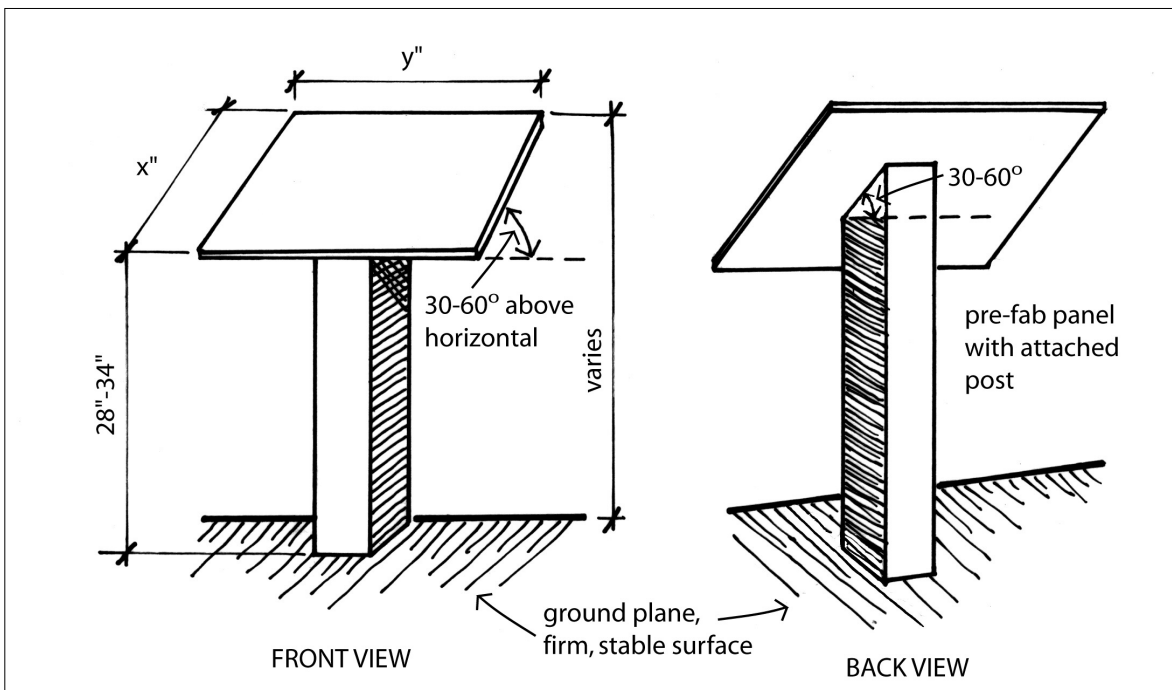


Figure 18-3

VII. VERTICALLY MOUNTED DISPLAYS

A. Displays mounted vertically shall be placed to allow both a standing and seated person to comfortably read the material (**Figure 18-4**).

B. Vertically mounted exhibits with most text and graphics between the 46" and 62" medians, and with most of the main body text centered around the 54" midpoint of the two medians will be within most viewers' comfortable range of

vision. Actual exhibit panel size may exceed these dimensions.

C. Exhibit shelters that have roofs must allow vertical clear space of at least 80" between the lowest edge of roof and exhibit viewing surface. Contact the Accessibility Section for more information (**Figure 18-4**).

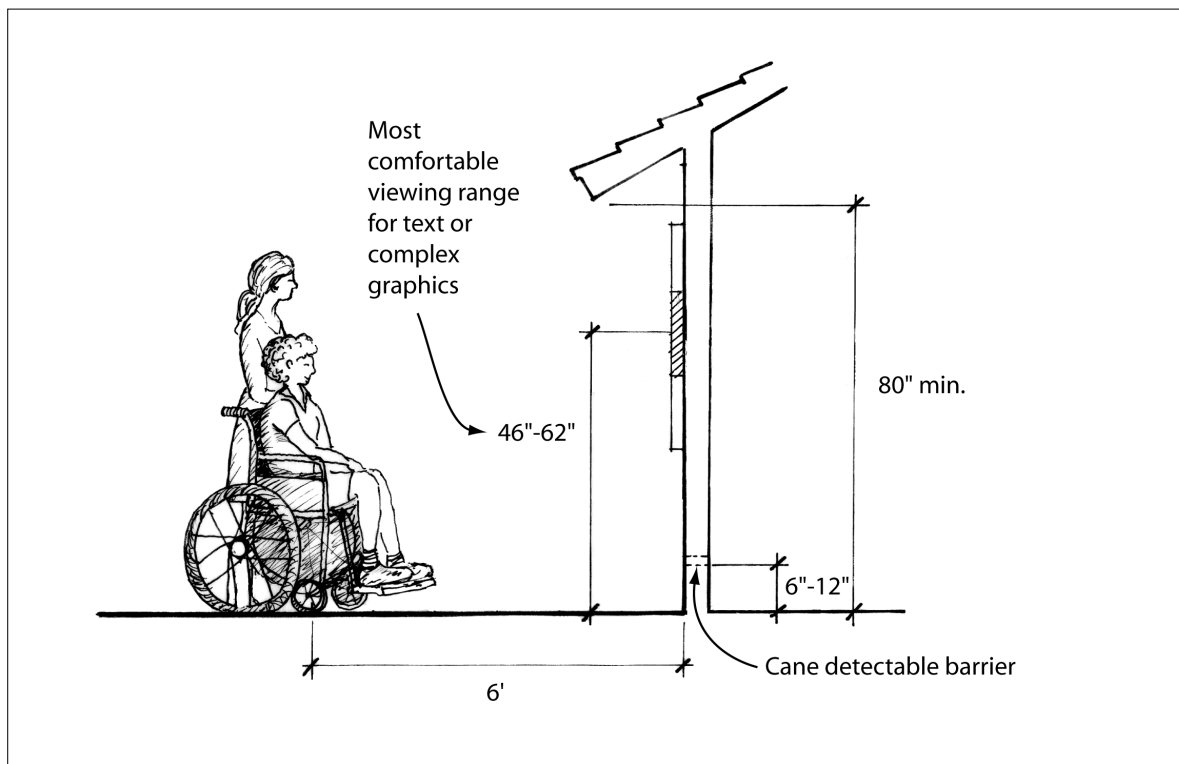


Figure 18-4

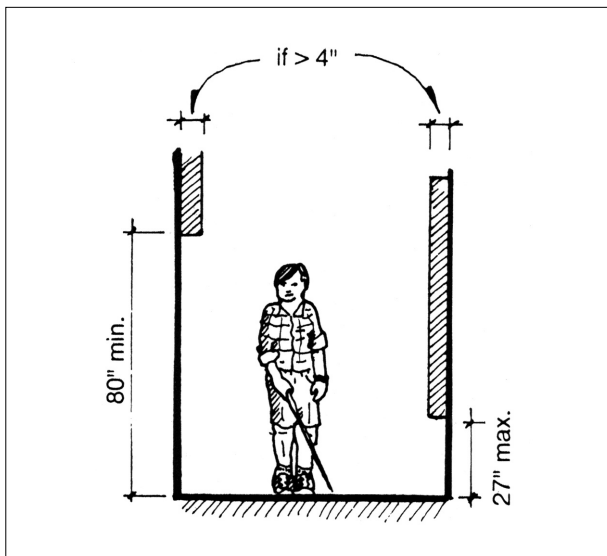


Figure 18-5

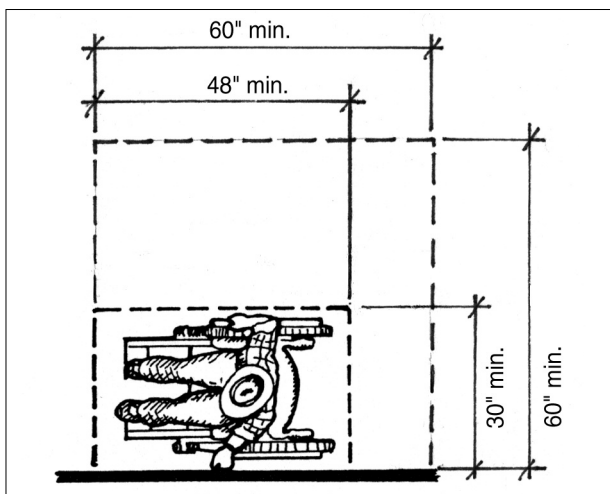


Figure 18-6

VIII. PROTRUDING OBJECTS

A. Objects projecting from walls (e.g. telephones, display cabinets, etc.) with their leading edges between 27" and 80" above the floor surface shall protrude a maximum of 4" into walks, halls, passageways or aisles (**Figure 18-5**).

CBC-1133B.8.6.1

B. Objects mounted with their leading edges at or below 27" above the floor surface may protrude any amount.

CBC-1133B.8.6.1

C. When freestanding objects are mounted on posts or supports between 27" and 80" above the floor surface, they may overhang 12" but all edges must be rounded, and the corners must have a minimum radius of 0.125 inches.

CBC-1133B.8.6.1-3

D. Protruding objects shall not reduce the clear width of an accessible route or maneuvering space.

CBC-1133B.8.6.3

IX. PATH OF TRAVEL AND CLEAR SPACE

A. Floor and path of travel surfaces must be firm, stable and slip resistant, along accessible routes, and in accessible rooms and spaces.

CBC-1124B.1

B. Exhibits and displays shall provide adequate allowance for approaching and viewing from a wheelchair. A stationary wheelchair requires a clear floor space of 30" x 48" (**Figures 18-6 & 18-7**).

CBC-1118B.4.1

C. The clear space in front of any exhibit or display shall be a minimum of 60" wide to allow for both exhibit viewing and visitor circulation (**Figure 18-8**).

CBC-1118B.3

D. All visitors viewing an exhibit shall be given the same opportunity to turn and leave the exhibit. To turn in any direction a wheelchair requires a minimum 60" diameter circle or a T-intersection with T-aisle widths of 36" or wider. (**Figure 18-9**).

CBC-1118B.3

E. Exhibit protective railings shall not be higher than 36" and shall not obstruct the line of vision of seated persons.

X. EXHIBIT PANELS AND TACTILE DESIGN

A. To provide accessible nature trails or other educational exhibits for those with vision impairments, exhibits need to follow the guidelines above regarding design, mounting and path issues.

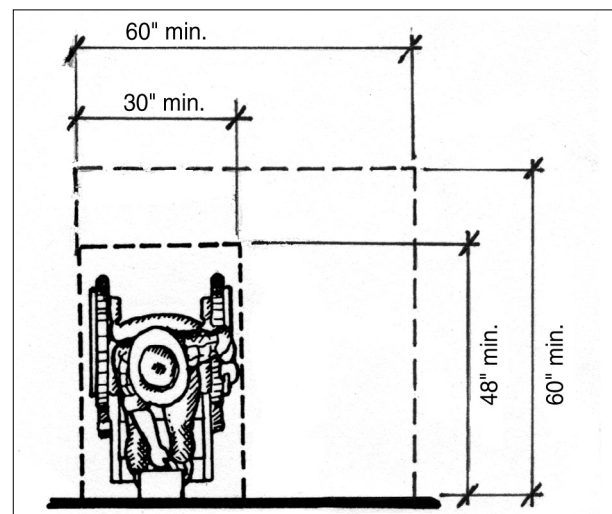


Figure 18-7

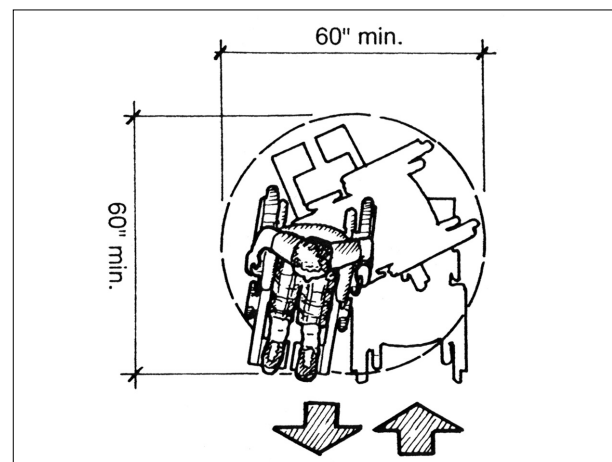


Figure 18-8

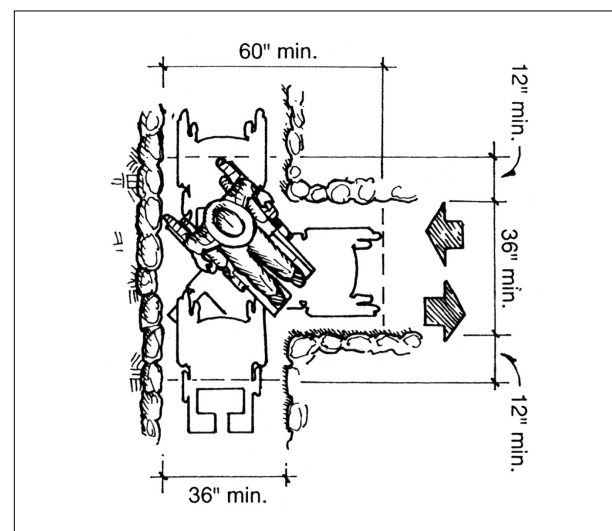


Figure 18-9

B. Exhibit designers shall also consider providing raised tactile uppercase sans serif lettering for short descriptive educational text such as plant names, “station” names (“Quartermasters House”) or numbers (“Stop 6: Valley Oak”) and similar basic concepts or simple graphics (Valley Oak Leaf, egg-and-dart molding).

C. See also the design information in Trails, Section 40 regarding methods to mark the panel locations so that they are detectable by persons with vision impairments.

XI. REFERENCES

A. For additional information, see the following references:

1. Website and other information from Lighthouse International research publications about accessible contrast and print. See online articles below:

[http://www.lighthouse.org/
color_contrast.htm](http://www.lighthouse.org/color_contrast.htm) AND

[http://www.lighthouse.org/
print_leg.htm](http://www.lighthouse.org/print_leg.htm)

2. Smithsonian Institute Guidelines for Accessible Exhibit Design, including some information credited to Parks Canada, at [www.si.edu/opa/accessibility/
exdesign/start.htm](http://www.si.edu/opa/accessibility/exdesign/start.htm)

Fishing

I. CONCEPT

A. Fishing is an activity that can be enjoyed by people with severe disabilities. Every effort should be made to develop fishing opportunities that are fully accessible where fishing is a program or activity offered.

CBC-1132B.2

B. Fishing may take place from any of 3 types of locations:

1. Fixed or floating pier/dock.
2. Bank or shoreline.
3. Boat.

C. The primary issues in the design of accessible fishing sites are:

1. Locating good fishing sites.
2. Integrating the site with an accessible path of travel and support facilities.
3. Design for changing water level.
4. Safety, including safe levels of lighting.

D. Accessible fishing sites shall be fully integrated with an accessible path of travel offering appropriate support facilities.

1. Accessible fishing sites shall be appropriately identified with the International Symbol of Accessibility (ISA) at the site and at paths and trails leading to the site (e.g. parking, restrooms, etc.).

CBC-1117B.5.1.1

E. Fishing sites may be developed or undeveloped.

1. Developed sites are firm, level pads provided at the edges of streams, lakes or the seashore (for surf fishing).
2. Undeveloped sites have not been significantly modified by construction, but are more analogous to rest areas in the pathway and trail system. They are firm, level areas at the water's edge and of sufficient dimension for wheelchair use.
3. The fishing site surface shall be firm and stable with a maximum slope of 3%.

II. SAFETY

A. All reasonable precautions should be taken to ensure a safe and comfortable fishing environment appropriate to the site.

B. Floor or grade surfaces of the site (platforms, piers, etc.) shall be made of non-slip materials.

CBC-1124B.1

III. FISHING PIERS

A. Fishing sites over water may be on fixed piers or floating docks.

B. Access to the fishing site shall be via an accessible path of travel.

C. The fishing site should extend over the water for a distance that allows fishing at both high and low water conditions.

D. Floating sites shall have enough stability and flotation to support the additional weight of people and equipment without significantly affecting the equilibrium of occupants.

E. Piers shall have a 2" high edge protection.

F. All gaps in horizontal walking surfaces shall be less than 1/2".

CBC-1124.B.4

IV. CONNECTION TO SHORE

A. Shore connections between the dock and land shall have a 36" minimum clear width.

B. The surface material of the gangway or bridge shall be slip-resistant.

CBC-1124B.1

C. Gangways must be designed to provide for a maximum 1:12 (8.33%) slope but are not required to be longer than 80' in length. No intermediate landings are required.

ADAAG-15.2.4

D. Gangways are not required to have landings at the end if transition plates are provided.

E. If the slope of the transition plate is greater than 1:20 (5%), transition plates must have a landing at the end of the transition plate that is not connected to the gangway and that complies with ADAAG ramp requirements.

ADAAG-15.2.2.EXCP2

F. Handrail extensions are not required where gangways and transition plates connect and both are provided with handrails.

ADAAG-15.2.2.EXCP6

V. SPACE NEEDED

A. There should be provision for a minimum of 5 linear feet per person along the water's edge. These dimensions intentionally exceed minimum wheelchair requirements. General spatial allowances are essential because privacy and solitude are very strong motivational factors for many anglers.

ADAAG-15.3.3

B. Fishing site surfaces and railings shall be of non-glare materials.

C. A minimum 30" x 48" clear space shall be provided at the accessible fishing site and the surface should be firm, stable and slip-resistant (**Figures 19-1 & 19-2**).

ADAAG-15.3.4

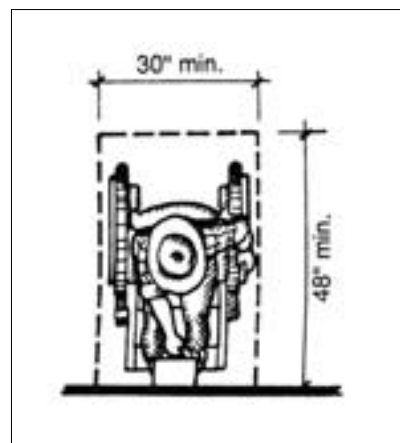


Figure 19-1

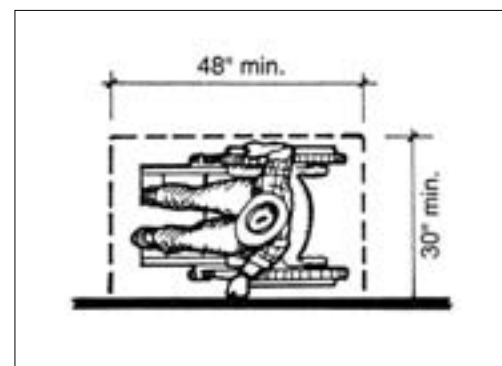


Figure 19-2

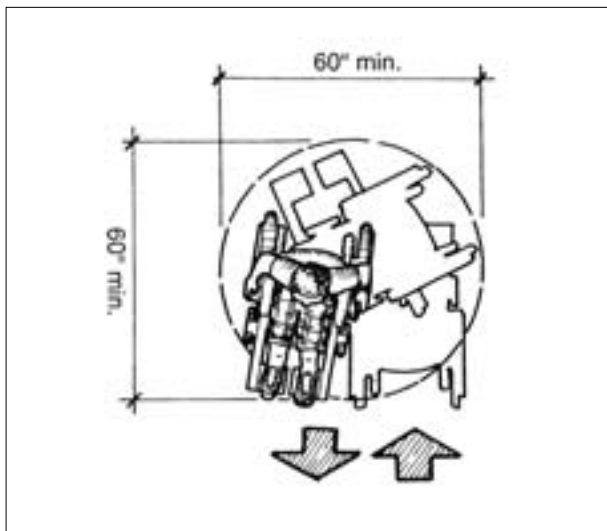


Figure 19-3

D. A maneuvering space of at least 60" in diameter or a T-intersection at least 36" wide must be provided to allow a person using a mobility device or wheelchair to make a 180-degree turn (**Figures 19-3 & 19-4**). The space may overlap the accessible route and clear floor or ground space.

ADAAG-4.2.1

E. The overhead casting clearance at fishing sites should be 12' minimum.

VI. HANDRAILS

A. Wherever possible, it is recommended to provide a 4" wide gap at maximum 8' intervals in the handrail to allow the feel of the unobstructed line playing in the water and the opportunity for multiple castings.

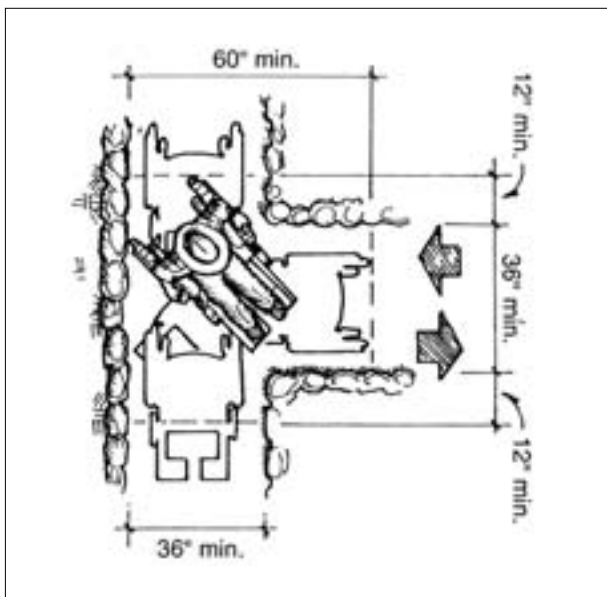


Figure 19-4

B. Where railings are provided at accessible fishing stations, rails shall be 34" above the ground or deck (**Figure 19-5**). Guardrails may be higher than 34" for enhanced safety or if a local building code applies. Accessible railings shall be dispersed in a variety of locations on the fishing pier or platform.

ADAAG-15.3.3.2

C. Where railings, guardrails or handrails are provided, edge protection at a minimum of 2" high above the ground or deck surface shall be provided (Figure 19-6).

ADAAG-15.3.3.1

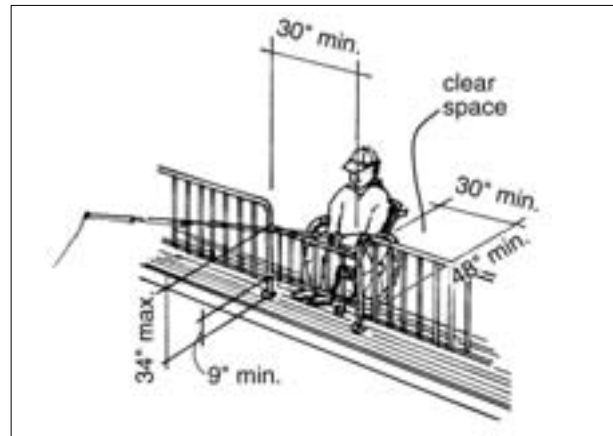


Figure 19-5

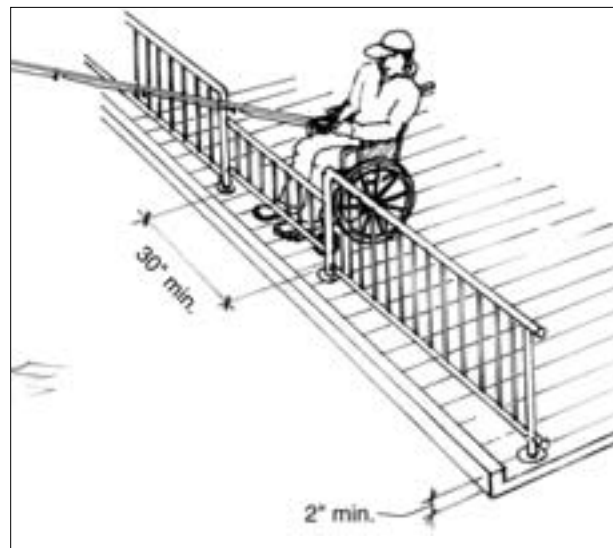


Figure 19-6

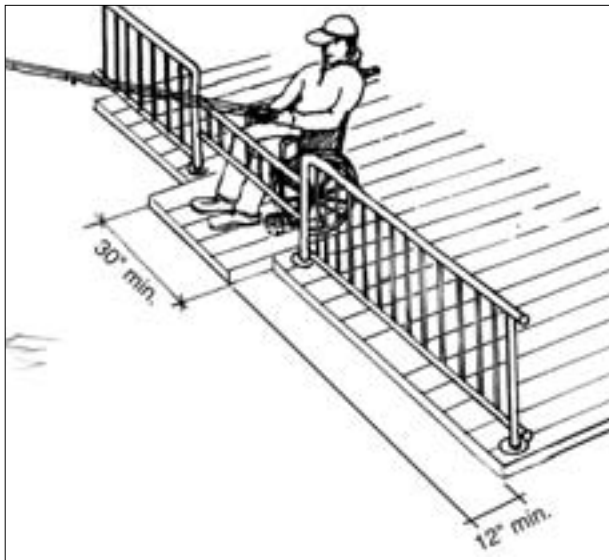


Figure 19-7

1. Edge protection is not required when the deck surface extends a minimum of 12" beyond the inside face of the railing, guardrail, or handrail (**Figure 19-7**). Toe clearance must be at least 30" wide and 9" minimum above the ground or deck surface beyond the railing (**Figure 19-5**).

ADAAG-15.3.3.1

- D.** Railings must support 250 lbs. of force in any direction.

ADAAG-4.37.6

VII. CLEANING TABLES

- A.** If fish cleaning tables are provided for standing persons, there shall be a proportionate section of table at 28" to 34" high, with clear knee space of 29" high, 19" deep and 30" wide underneath available for seated persons.

ADAAG-4.32.3

- B.** Faucet controls must be operable with a closed fist, the activation force must be 5 lbs. or less and, if self-closing, must stay on at least 10 seconds.

ADAAG-4.27.4/CPC-1508.1-2

VIII. BENCHES

- A.** If fixed benches are provided, *refer to Fixed Benches, Section 20.*

Fixed Benches

I. CONCEPT

A. Fixed benches, where provided, must be made accessible for users with various types of disabilities.

99AG-16.12.2.1

B. At least 50% of the fixed benches being provided in a facility or a building shall be accessible and shall be dispersed among the types provided.

99AG-16.12.2

C. Of the number of fixed benches required to be accessible, at least 40% shall be provided along an accessible route of travel. (*Refer to Routes of Travel, Section 32.*)

II. CLEAR SPACES

A. The surface around the accessible bench shall be firm and stable.

99AG-16.12.6

B. A minimum area of 30" x 48" shall be provided at one end of the fixed bench so that a wheelchair user may be seated shoulder-to-shoulder with an individual seated on the bench (**Figure 20-1**).

99AG-16.12.4/ADAAG-4.2.4

C. Clear spaces shall have a slope that does not exceed 2% in any direction (if necessary for proper drainage, 3% maximum is allowed).

99AG-16.12.7

D. It is recommended that benches be placed 12" off any pathway so that a seated person does not obstruct the path of travel.

Fixed Benches

III. BENCH DESIGN

A. The fixed bench shall be free of sharp edges or protruding hardware that may be hazardous.

CBC-1124B.1

B. The height of the front edge of the seating surface shall be between 17" and 19" above the adjacent grade or floor space.

99AG-16.12.3

C. A back support shall be provided along the full length of the accessible bench (**Figure 20-1**).

99AG-16.12.5

D. Accessible benches shall have seats that are 20" to 24" in depth and 42" minimum in length. The back support shall extend from a point 2" maximum above the bench to 18" minimum above the bench (**Figure 20-1**).

ADAAG-4.37.4

E. Accessible fixed benches shall have at least one armrest that can withstand 250 lbs. of force in any direction (**Figure 20-1**).

99AG-16.12.2-8/ADAAG-4.26.3

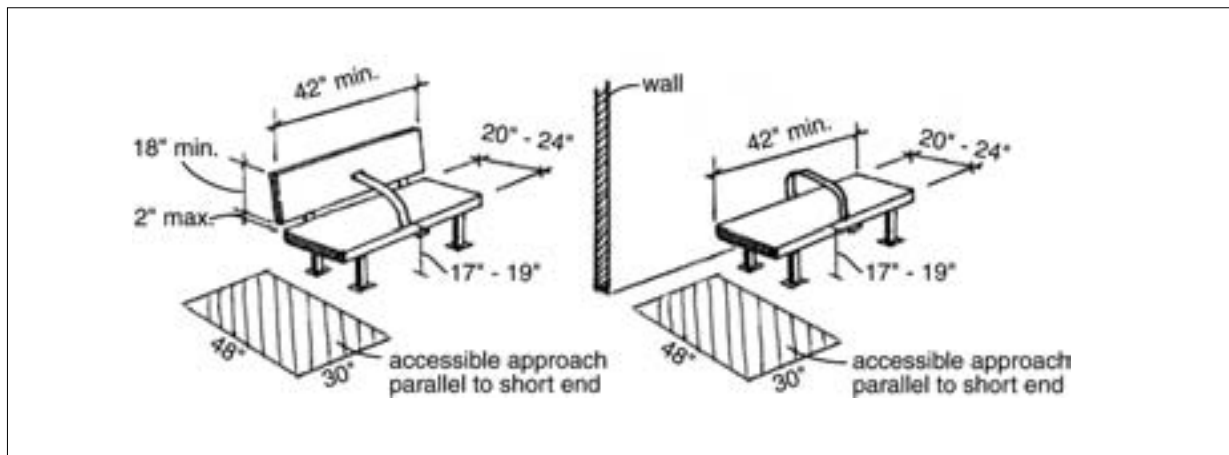


Figure 20-1

Guided/Self-Guided Programs and Tours

I. CONCEPT

A. Conducted tours and interpretive walks/talks should be scheduled at locations that are accessible.

B. Tours must be integrated to accommodate visitors with differing abilities, as possible. Guides and interpreters must respond to individual differences and adjust the pace accordingly.

C. Hikes or tours requiring the ability to traverse stairs or difficult terrain should be so described in advance publicity.

D. Interpreters shall be provided when requested in advance or whenever oral presentations are scheduled for large groups. Interpreters may include ASL, verbal enhancement for individuals with visual impairments, etc.

DN 2001-04

E. Upon request, effort shall be made to obtain a Qualified Sign Language Interpreter (QSLI) or the deaf or hard of hearing person's preferred method of communication (e.g., written, ASD, CART, etc.) in accordance with the Department's QSLI Policy.

F. Material shall be provided that describes what information is available and the various means by which it is communicated.

G. Portable assistive listening devices shall be provided for tours, special events and other activities where oral presentations are the core program.

H. Oral description and/or sighted guide services must be available for the blind and visually impaired when requested in advance or whenever visual presentations are scheduled for large groups.

II. SELF-GUIDED PROGRAMS

A. Self-guided printed or audio tours must be designed to be accessible. Interpretive resource material to help guide the tour must be available in a variety of media (e.g. audiocassettes, large print, Braille, etc.).

B. Educational nature trails must be designed to be accessible (*refer to Section 40, Trails*).

III. EYE LEVEL

A. Any solid barriers or walls required along the route or at interpretive trails must be designed so that their height and location will permit clear visual access for a person sitting in a wheelchair.

B. An adult sitting in a wheelchair has an eye level between 42" and 50" measured vertically from the floor surface. Exhibits, Section 18, provides criteria for the placement of visual displays of various types

IV. TOUR ROUTE

A. Before beginning the tour, describe the route that will be taken, provide a map if available and give a brief overview of the resources that will be interpreted along the way. Describe any obstacles that may be encountered along the route.

V. SPEAKING TO GROUPS

A. Adequate lighting of speakers is essential to facilitate lip reading for persons with hearing impairments.

B. Face the audience when speaking so that the lip reader, signer or oral interpreter may better see them.

C. Use a normal tone and volume during the program. Do not assume that speaking louder will help visitors with hearing impairments. Speak louder only when it is requested. For large groups, use an amplification system/assistive listening system.

D. Speakers should wait for the audience to settle and be sure to have everyone's attention before talking. Also, speakers may periodically check to see that everyone has understood before continuing.

E. Try to use short sentences and avoid using slang or jargon. A subject-verb-object sentence structure is best because it is the same syntax as American Sign Language.

F. Avoid sweeping arm movements or moving around while speaking; this may be distracting to some visitors.

G. Give an oral description of objects or features you show the group.

VI. DELIVERING INTERPRETIVE INFORMATION

A. Focus the program around a theme. Smooth transitions are helpful. Discuss concepts and ideas in basic terms and reinforce through repetition. Too much information may cause confusion.

B. When showing visitors an object and discussing it at the same time, allow extra time for visitors to see what has been described. Some visitors can look at an object during the talk, but visitors with hearing impairments may need to watch the sign language or oral interpreter, or they may be lip-reading.

C. Speakers must try to position themselves so that visitors can see them and the object of discussion at the same time. When working with a sign language or oral interpreter, the object must be placed between the two speakers.

D. To help visitors better understand the presentation, point to objects that are being discussed .

E. Reading aloud exhibit or trail signage can assist visitors with visual impairments.

F. Use photographs, slides, objects and other visual and tactile examples to illustrate interpretive information.

G. Use descriptive language during the talk and encourage the entire group to be more aware of their senses.

H. Be familiar with and incorporate different methods of describing historical and natural settings and objects.

I. Explain new or difficult words and concepts. Include these words and their definitions in a handout, along with suggestions for additional reading on the subject.

VII. QUESTIONS TO THE AUDIENCE

A. Questions to the audience should allow sufficient time for a response. Questions from the audience should be repeated. An individual with a hearing impairment may understand the question a few seconds later because the sign language or oral interpreter may be a few words behind the speaker.

B. Look for visitors to indicate that they wish to answer a question before calling on them. A speech impairment or memory problem may interfere with visitors' abilities to answer questions. Calling on them when they are not ready may cause unnecessary embarrassment.

C. Do not automatically dismiss a question or an answer as being irrelevant. Sometimes communication difficulties confuse what the individual is trying to say. Speakers should attempt to relate the question or answer to the subject.

VIII. INDIVIDUAL NEEDS

A. Allow extra time between exhibits or points of interest. People using assistive mobility devices may require additional time to move about.

B. Some individuals with developmental disabilities may have difficulty understanding the concept of historical and calendar time. If this information is included in a program, use a variety of techniques to explain or demonstrate it.

C. Be aware that the low light levels in some areas might create hazardous situations especially for persons with visual impairments. Some individuals may need extra time when moving from a bright area into a darkened room to allow their eyes to adjust.

D. Meet with visitors with visual impairments before and/or after the program and ask if there is anything they would like described to them or if they would like additional information.

IX. SERVICE ANIMALS

A. Working service animals are permitted in park facilities and activities as long as the animal is under the immediate control of its owner.

B. Self-guided hikes through natural or cultural areas may be posted as closed to all animals, including service animals, for the protection of the visitors or the resource, or during certain times such as breeding season.

X. REFERENCES

A. For additional information, refer to the Accessibility Section's resource list; the California Department of Parks and Recreation's Qualified Sign Language Interpreters Policy; and "All Visitors Welcome – Accessibility in Interpretive Programs and Facilities," a California State Parks publication.

Historic Sites

I. CONCEPT

A. The Americans with Disabilities Act requires government agencies to ensure that all of their facilities, services and programs are accessible.

B. All historical buildings and sites shall be as accessible as non-historical buildings, to the greatest extent possible, so that everyone may enjoy them.

C. The California Historical Building Code (CHBC), Chapter 8-6, provides alternative solutions for qualified historic buildings while allowing access for disabled persons.

CHBC8-601.2

D. Any changes from the highest levels of compliance must be decided on a case-by-case basis. Reasons for changes shall be documented and available in public records.

CHBC8-602.2

E. Project planning for historic buildings and properties must include accessibility solutions and be consistent with the park unit's General Plan.

II. PROCESS/APPROVALS

A. All State Park historic sites construction projects shall use their best efforts to obtain and document input from their District Accessibility Resource Group (DARG). Refer to existing departmental policy on DARG group requirements.

B. Accessibility issues for historic sites and properties shall be reviewed by the Accessibility Section, in conjunction with the Project Evaluation Form process. All project designs must be approved and certified by the Accessibility Section.

C. District Superintendents should verify that all proposed projects are consistent with the unit's General Plan and/or contact the General Planning Section for assistance.

D. Issues that arise regarding the level of access for a historic structure that cannot be resolved at the district level, will be resolved with assistance from the Service Center, the Accessibility Section, and the Division Chief, as appropriate.

E. The Department's Preservation Officer will provide the final decision on unresolved issues. All decisions must be documented and incorporated into the project file.

III. DEFINITIONS

A. Qualified Historic Buildings or Properties:

Structures, buildings, districts or sites that are listed, or eligible to be listed, on the National Register of Historic Places or the California Register of Historical Resources are known as Qualified Buildings or Properties. Other structures on other official state, county or local inventories and surveys may also have qualifying historic status.

CHBC8-218

B. Character Defining Features:

Physical or visual elements of a structure or property, such as shape, materials, craftsmanship, decorative features, interior spaces and setting, which give it architectural, historical and cultural value.

CHBC8-204

C. Historical Significance:

The importance for which a property has been evaluated and designated historic by an authority with jurisdiction. This includes buildings, structures, districts or sites, generally at least 50 years old, that possess historical integrity, and are associated with important historic events or persons, have distinctive architectural characteristics or have potential to provide important information about pre-history or history.

CHBC8-209, 39 CFR 63

D. (Historical) Integrity:

The CHBC defines integrity as the authenticity of a property's historic identity, evidenced by the survival of physical characteristics that existed during the property's historic or prehistoric period. Integrity is defined by the National Register as the ability of a property to express its significance. This ability is shown by the survival of those traits and features that exemplify its significance and make the property eligible for the register. The seven aspects of integrity are integrity of location, design, setting, materials, workmanship, feeling and association.

CHBC8-210, 36 CFR 63

E. Restoration:

The act or process and work of accurately depicting the form, features and character of a property, building or struc-

ture as it appeared at a particular period of time.

CBC Chapter 34, Sect. 8-219

F. Reconstruction:

The act or process and work of depicting, by means of “new construction”, the form, features, and detailing of a non-surviving site, landscape, building, structure or object for the purposes of replicating its appearance at a specific period of time.

CBC Chapter 34, Sect. 8-219

IV. ACCESSIBILITY PROVISIONS

CHBC Chapter 8-6

A. Basic Provisions:

The same access code requirements as those for non-historic buildings shall apply to historic structures and properties unless compliance with regular code threatens historical significance or integrity. In other words, the accessibility requirements outlined in other sections on buildings, doorways, elevators, lifts, ramps, restrooms, routes of travel, etc. shall be applied before the options listed below.

CHBC8-602

B. Preferred Alternatives:

If using the Basic Provisions would threaten or destroy historic significance or integrity, the Preferred Alternatives may be used as long as they are applied

on a case-by-case basis. Alternatives are to be used in priority order as listed below, with the strictest used first.

CHBC8-603

1. Entry Access Route Alternatives

- a. Access shall be from any entrance used by the general public and no further than 200' from the primary entry.
- b. Access to any open and unlocked entry no further than 200' from the primary entry.

2. Door Alternatives (Basic Provisions require a 32" clear opening.)

- a. A single-leaf door with at least a 30" clear opening.
- b. A single-leaf door with a 29.5" clear opening.
- c. Double doors where one leaf provides a 29.5" clear opening.
- d. Double doors with a power-assist device and a combined clear opening of 29.5". Note: Offset hinges may sometimes be used to increase clear openings by as much as an inch and a half.

- e. Power-Assisted Doors: Power assisted doors may be considered acceptable alternatives for level landings, strike side clearances and door opening forces required by regular code.

3. Toilet Room Alternatives

- a. Where restrooms are provided, make at least one men's restroom and one women's restroom accessible, or provide an accessible unisex restroom.

4. Exterior and Interior Ramp and Lift Alternatives

- a. A lift or ramp may have slopes up to 10% for distances up to 12'.
- b. Access may be by ramps sloped up to 16.6% for no more than 13" with signs posting slopes at the top and bottom.

C. Equivalent Facilitation

If using the Preferred Alternatives threatens historical significance or integrity or would require a fundamental change in the program, service or activity, then use of alternative designs or technology is permitted under the following conditions:

CHBC8-604

- 1. Alternatives must be applied on a case-by-case basis.
- 2. Alternatives used must provide substantially equivalent or greater accessibility to the facility.
- 3. Reasons for the use of Equivalent Facilitation and the effect such alternatives will have on the property must include comments from local groups of peoples with disabilities and must be documented and kept in State Park's permanent file.
- 4. Alternatives may include providing services, videos, virtual reality tours, maps, plans, exhibits or other creative solutions at accessible levels.

D. Exceptions:

If use of any alternative access standards as described would threaten or destroy historic significance or integrity and if no equivalent facilitation is feasible, on a case-by-case basis, an exception from requirements for full and equal access may be provided on the following conditions:

CHBC8-605

1. Interpretive exhibits or equal services of the excepted historic structure are provided in a location fully accessible to persons with disabilities.
2. The accessible location and services provided are equal to those provided in the excepted historic location.
3. Reasons for the use of alternative technologies and their effect on the significance and character-defining features of the historic structure must be documented.
4. Opinions and comments of state or local access compliance officials and people with disabilities must be part of the documentation, which shall be part of the permanent file of the enforcing agency.

E. References:

For additional information, refer to Departmental Notice DN2004-05, Accessibility and Historic Properties.

Kitchens

I. CONCEPT

A. Where kitchen facilities are provided, they must be accessible. The kitchen must be on an accessible route and all provided amenities used by the public must also be accessible to persons with disabilities.

C. The required accessible countertops shall be mounted no higher than 34" above the floor and shall be designed to enable repositioning to a minimum height of 28".

ADAAG-9.2.2(7)/CBC-1112A.2

II. COUNTERTOPS

A. A minimum of 30" of countertop shall be provided for the sink counter (**Figure 23-1**).

CBC-1112A.2

B. An additional minimum of 30" of countertop shall be provided for the adjacent workspace (**Figure 23-1**).

CBC-1112A.2

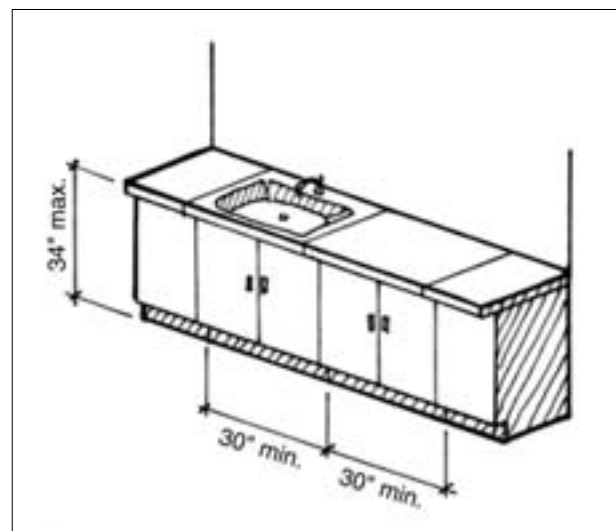


Figure 23-1

Kitchens

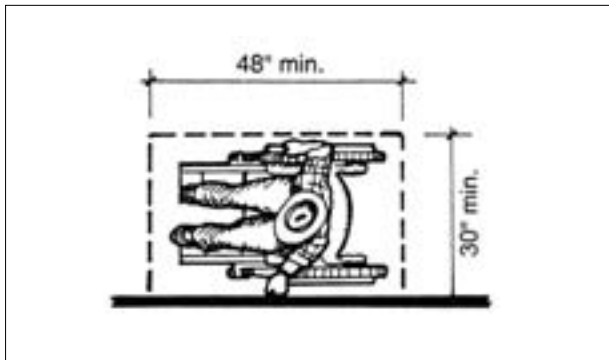


Figure 23-2

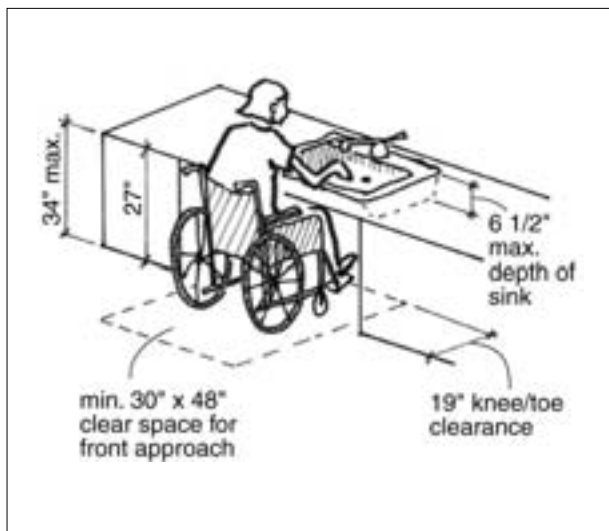


Figure 23-3

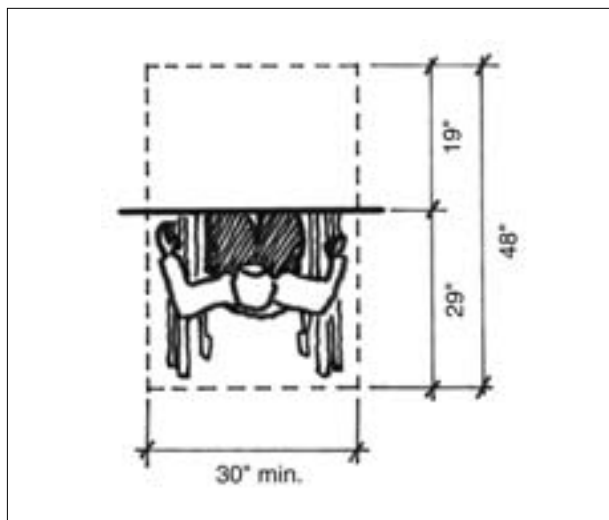


Figure 23-4

D. There shall be a 30" x 48" clear space around sinks, appliances and countertops that allows a parallel approach (**Figure 23-2**).

ADAAG-9.2.2(7)/CBC-1112A.2

E. Knee space under the sink and work counter shall be a minimum of 19" deep, 27" high and 30" wide (**Figures 23-3 & 23-4**).

CBC-1122B.3

III. CABINETS

A. Base cabinets, including toeboard and shelving, directly under the sink and work surface counters shall be removable without the use of specialized tools or knowledge.

CBC-1112A.4/CBC-1112A.4

B. The flooring underneath removable cabinets shall be finished.

CBC-1112A.2

C. The sides and backs of cabinets located adjacent to the sink and work-space countertops shall be constructed of durable, non-absorbent materials to accommodate cabinet exposure to moisture and food handling when the countertop is lowered.

CBC-1112A.2

D. A minimum of 50% of cabinets, shelf space and refrigerator/freezer space shall be within reach ranges, 15" to 48" for a front approach or 9" to 54" for a side approach.

CBC-1118B.5-6

E. Drawer and lower shelf space shall be provided at a maximum height of 48".

CBC-1112A.5

IV. APPLIANCES

A. Appliances and their controls shall meet applicable Title 24 (CBC) and ADAAG regulations. Contact the Accessibility Section

V. SINKS

A. *Refer to Sinks, Section 35.*

Lifts

I. CONCEPT

A. Lifts can only be used in lieu of an elevator in existing buildings. In new buildings the use of a lift is limited as outlined in the following sections.

B. Special access wheelchair lifts may be provided between levels in lieu of an elevator when the vertical distance between landings, as well as the structural design and safeguards, are as allowed by the State of California, Division of the State Architect, Department of Industrial Relations, Division of Occupational Safety and Health and any applicable safety regulations of other administrative authorities having jurisdiction.

CBC-1116B.2

II. USE OF LIFTS

A. Changes in levels along an accessible route greater than 1/2" shall comply

with the requirements of a curb ramp, ramp, elevator or platform lift as permitted for new construction or alterations. An accessible route does not include stairs, steps or escalators.

ADAAG 4.3.8

B. Elevators and lifts shall be on an accessible route and they shall be designed and constructed to be accessible in accordance with appropriate building codes.

ADAAG 4.0-4.11/CBC-1116B

C. If lifts are provided, they shall be designed and constructed to facilitate unassisted entry, operation and exit from the lift and shall comply with the requirements of this section, in conjunction with Sections 3090 to 3094, Part 7 of the California Code of Regulations.

D. Additionally, lifts may be provided as part of an accessible route only for the following conditions:

1. To provide an accessible route to a performing area or stage, or to a speaking area or similar place in an assembly area.

CBC-1116B.2.1

2. To comply with the wheelchair viewing position line-of-sight and dispersion requirements (Refer to Campfire Centers/ Assembly Areas, Section 8).

CBC-1116B.2.2

3. To provide access to incidental occupiable spaces and rooms which are not open to the general public and which house no more than five persons, including, but not limited to, equipment control rooms and projection booths.

CBC-1116B.2.3

4. To provide access where existing site constraints or other constraints make use of a ramp or an elevator infeasible.

CBC-1116B.2.4

E. The minimum landing area outside the entry and exit door to the lift shall be 60" x 60". Exception: a 30" x 48" landing with existing conditions may be permitted and is subject to review by the Accessibility Section. A person using a wheelchair must be able to enter and operate the lift safely.

CBC-1116B.2.4.1

Parking

I. CONCEPT

A. Where parking is provided, appropriate accessible spaces shall be provided. This will include the proper number, including van spaces, with appropriate signage and location of spaces with an accessible route of travel to the facilities or activities.

II. LOCATION

A. Accessible spaces must be located as near as possible to a primary entrance or on the shortest accessible route from parking to the facility, activity, etc.

CBC-1129B.1

B. Parking spaces shall be located so visitors do not have to travel behind parked cars other than their own.

CBC-1129B.4.3

C. Accessible paths shall be provided from parking spaces to related facilities, including curb cuts or ramps, as needed. Ramps shall not encroach on any parking or access aisle spaces.

CBC-1129B.4.3

III. SPACES REQUIRED

A. Minimum number of accessible spaces required: See chart on next page (VAS = Van Accessible Space) (**Figure 25-1**).

CBC-1129B.4.2, see Table 11B-6

B. A minimum of one in every 8 accessible spaces, but no less than 1, should be served by a minimum 8' wide access aisle on the passenger side and be designated with a sign as "Van Accessible."

CBC-1129B.4.2

C. Additional standard accessible stalls may be served by a 5' wide access aisle."

Total Spaces	Total Accessible Spaces	Total Spaces	Total Accessible Spaces
1-25	1 VAS	201-300	7 (1 VAS)
26-50	2 (1 VAS)	301-400	8 (1 VAS)
51-75	3 (1 VAS)	401-500	9 (1 VAS)
76-100	4 (1 VAS)	501-1000	2% of total (3 VAS)
101-150	5 (1 VAS)	1001+	20+1 for each 100 over 1000
151-200	6 (1 VAS)		

Figure 25-1

IV. TIRE STOPS

A. A bumper or curb shall be provided to serve as a tire stop to prevent encroachment of cars on the required width of walkways.

CBC-1129B.4.3

V. SURFACE

A. Accessible parking spaces are paved. For non-paved parking, contact the Accessibility Section.

CBC-1124B.1

VI. SLOPE

A. Surface slopes of accessible parking spaces shall be kept to a minimum for surface water drainage and shall not exceed 2% in any direction.

CBC-1129B4.4

VII. SIZE

A. Each parking space must be 18' minimum in length (**Figure 25-2**).

CBC-1129B4.1

B. If only one space, it shall be 17' wide, outlined to provide 9' wide parking space and 8' wide loading and unloading aisle on the passenger side of the vehicle.

CBC-1129B4.1-2

C. If more than one space is provided, in lieu of providing a 17' wide space, 2 spaces can be provided within a 26' wide area, lined to provide a 9' wide parking space on each side of an 8' wide loading and unloading aisle in the center.

VIII. IDENTIFICATION

A. The surface of each accessible paved parking space shall have a surface identification, duplicating the International Symbol of Accessibility (ISA), in blue

paint at least 36" square in area located so it can be seen by a parking enforcement official (**Figure 25-2**).

CBC-1129B.5.2

B. A permanently affixed reflectorized sign displaying the International Symbol of Accessibility (ISA) shall identify each designated space (**Figures 25-2, 3, 4**).

CBC-1129B.5

1. The sign shall be no smaller than 70" square in area.
2. It shall be at a minimum height of 80" centered from parking/walking surface to bottom of the sign, if free standing and in a path of travel.

3. It shall be at a minimum height of 36" centered to the bottom of the sign from the landscape area or wall surface base, when not placed directly in a pedestrian circulation route.

C. An additional tow-away sign, with phone number, shall be posted at each entrance to the parking facility with the following:

CBC-1129B.5

1. The tow-away sign shall measure no less than 17" x 22", with 1" minimum lettering.
2. The sign shall read, "Unauthorized vehicles parked in

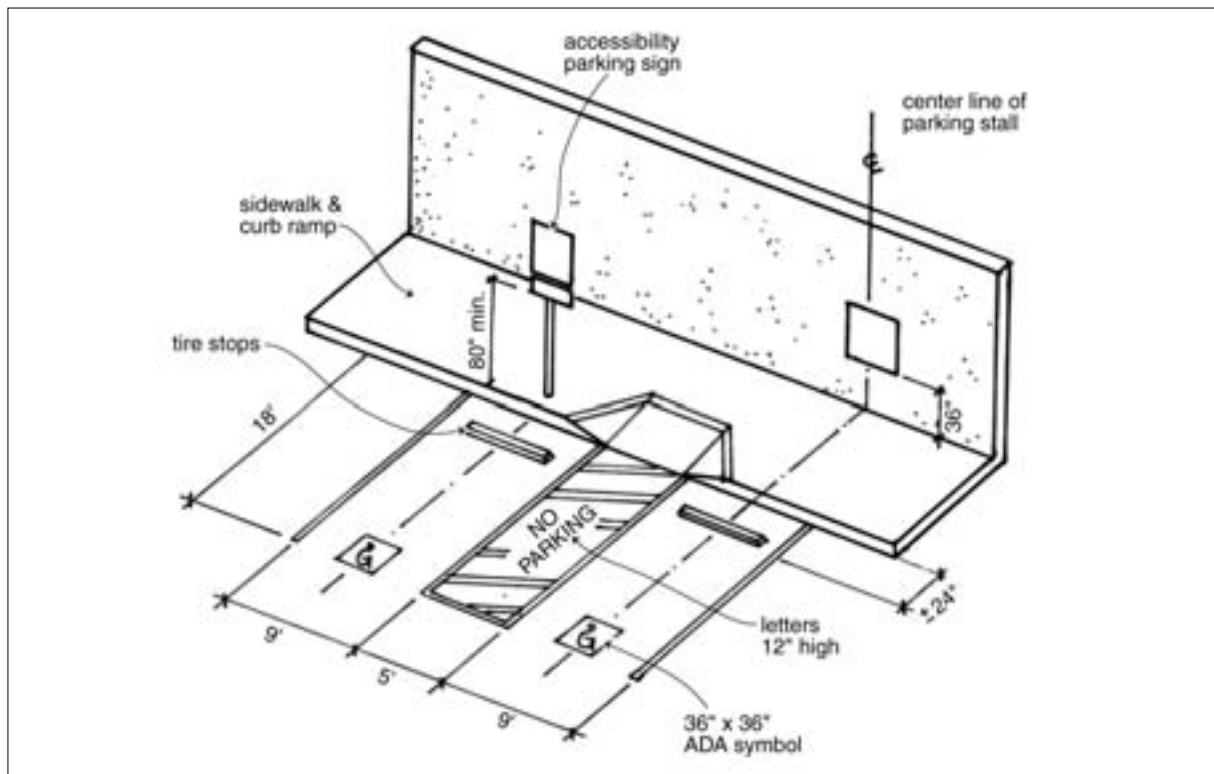


Figure 25-2

Parking



Figure 25-3

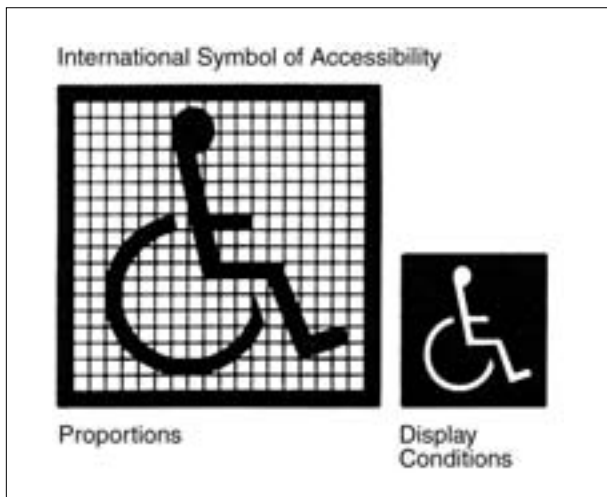


Figure 25-4

designated accessible spaces not displaying distinguishing placards or license plates issued for persons with a disability may be cited and towed away at owner's expense."

D. Accessible van spaces shall be identified with a physically separate "Van Accessible" sign located below the symbol of accessibility.

CBC-1129B.5

E. The words "NO PARKING" shall be painted on the ground within each 5' or 8' wide loading and unloading access aisle. This notice shall be painted in white letters no less than 12" high and located so that it is visible to traffic enforcement officials (**Figure 25-2**).

CBC-1129B.4.2

IX. PARKING STRUCTURES

A. Parking structures shall have a minimum vertical clearance of 8'2" at entrances and where required for access to accessible parking spaces.

CBC-1130B

X. PULL-THROUGH PARKING

A. If pull-through parking for motorhomes, camping trailers or boat trailers is provided, it should meet the following guidelines:

1. Width of parking area should be 10' and, if paved, the International Symbol of Accessibility (ISA) shall be painted at each end.
2. An adjacent loading/unloading area (on the passenger side if a single parking spot) shall be 8' wide, blue striped if paved, with a post mounted accessibility sign on the outside edge of the loading/unloading area.

XI. PASSENGER DROP-OFF AND LOADING ZONES

A. If passenger drop-off and loading zones are provided, one zone shall have the following:

CBC-1131B.2.1

1. An accessible aisle 5' x 20' provided adjacent and parallel to the vehicle pull-up space (**Figure 25-5**).
2. Surface slope less than 2% in all directions including vehicle space.
CBC-1131B.2.1
3. Stable, firm and slip resistant surfaces.
4. Identified by the International Symbol of Accessibility (ISA).

B. Vertical clearance of 9'6" shall be located at the loading zone, site entrance and exit.

CBC-1131B.2.2

C. Walk surfaces crossing or joining the vehicular way not separated by curbs, railings or other elements shall be identified with continuous, detectable warnings. These warnings shall meet the following guidelines:

1. The warnings shall be between 24" and 36" wide.
2. They shall contrast visually with adjoining surfaces with either dark on light or light on dark.

D. A curb ramp shall be provided for zones where a curb is present between the aisle and vehicular pull-up space.

ADAAG-4.6.6

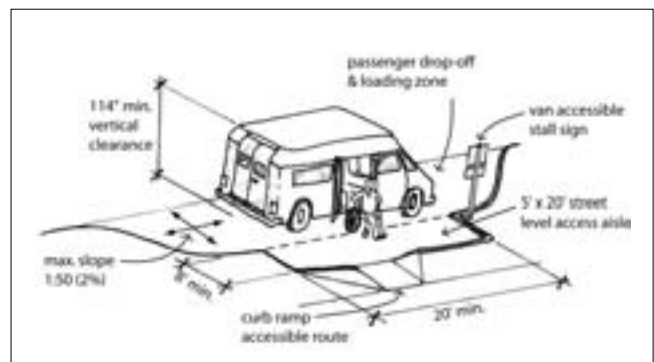


Figure 25-5

Picnic Sites

I. CONCEPT

A. A picnic site exists wherever one or more fixed picnic tables are located. In general, picnic areas must include accessible parking, restroom, picnic site and routes that connect each of the elements throughout the area.

II. SITE PLANNING

A. Where one fixed picnic table is provided in a picnic area, it must be accessible and must be connected to an outdoor recreation access route.

99AG-16.5.1.1

B. If there are two or more picnic tables, at least 50%, but never less than two, shall be accessible tables.

99AG-16.5.1.2

C. Of the accessible tables, at least 40%, but never less than two tables, shall be on an accessible route of travel. *(Refer to Routes of Travel, Section 32.)*

D. Accessible picnic tables shall be dispersed throughout the picnic area.

99AG-16.5.2

E. The accessible picnic sites shall be located on a surface area with no greater than a 2% slope (3% slope when necessary for drainage).

99AG-16.5.7

III. PICNIC TABLES

A. Picnic tables and benches shall be on a firm, stable surface.

99AG-16.5.6

Picnic Sites

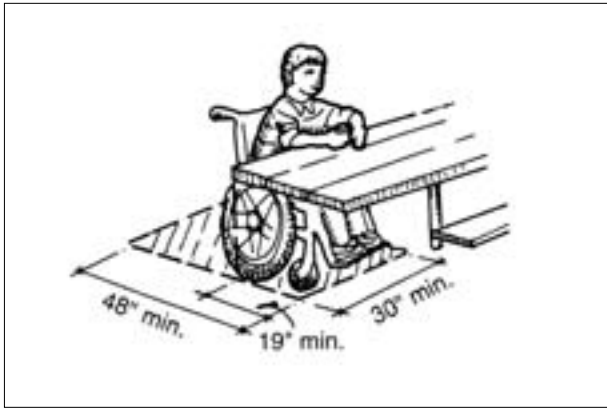


Figure 26-1

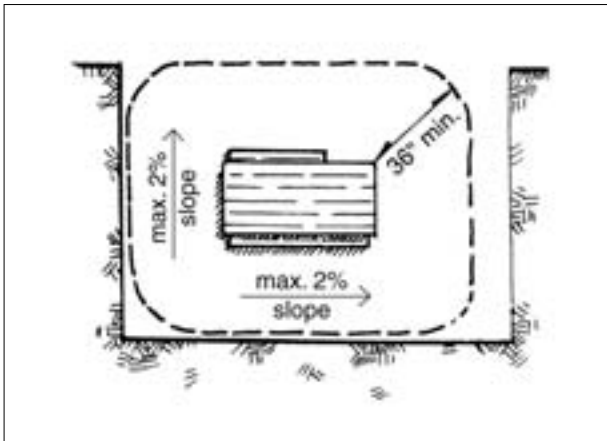


Figure 26-2

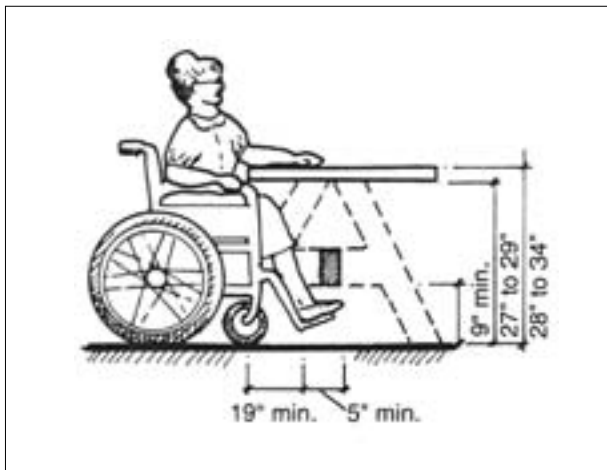


Figure 26-3

B. An accessible picnic table shall have at least one wheelchair seating space (**Figure 26-1**). Where the table top perimeter exceeds 24 linear feet, the number of wheelchair seating spaces shall comply with the following:

99AG-16.5.3

Table Top Perimeter	Wheelchair Spaces
25 lf – 44 lf	2 spaces
45 lf – 64 lf	3 spaces
65 lf – 84 lf	4 spaces
85 lf – 104 lf	5 spaces

C. Picnic tables and benches shall have no sharp edges or protruding hardware that may be hazardous.

D. Around the picnic table, a 36" clear space measured from the seat shall be maintained (**Figure 26-2**).

99AG-16.5.5

E. Distance from the tabletop to the ground shall be between 28" and 34" (**Figure 26-3**).

CBC-1122B.4

F. Picnic tables shall have a minimum knee clearance of 27" high, 19" deep and 30" wide. Toe clearance shall be a minimum of 9" high and 24" deep (**Figures 26-1 & 26-3**).

99AG-16.5.4

IV. GRILLS, FIRE RINGS AND COOKING SURFACES

A. Where a cooking surface or fire ring is provided at a picnic site, it must be accessible.

99AG-16.6.1.1/99AG-16.7.1.1

B. Surrounding the accessible cooking facilities and fire rings shall be a stable, firm surface having a minimum of 48" clear space (**Figure 26-4**). A distinctive area surrounding the cooking area would be helpful in alerting visitors with vision impairments.

99AG-16.6.3-7/99AG-16.7.5-7

C. The slope of the clear space around cooking facilities and fire rings shall be a maximum of 2% (3% slope when necessary for drainage) (**Figure 26-4**).

99AG-16.6.6/99AG-16.7.6

D. The height of the fire ring's raised edge shall be between 20" and 24".

E. On fire rings or fire place grills, the fire building surface height shall be 9" minimum above ground level and the distance from the outside edge of the fire ring to the fire building surface shall be a maximum of 24" (**Figure 26-5**).

99AG-16.6.4-5

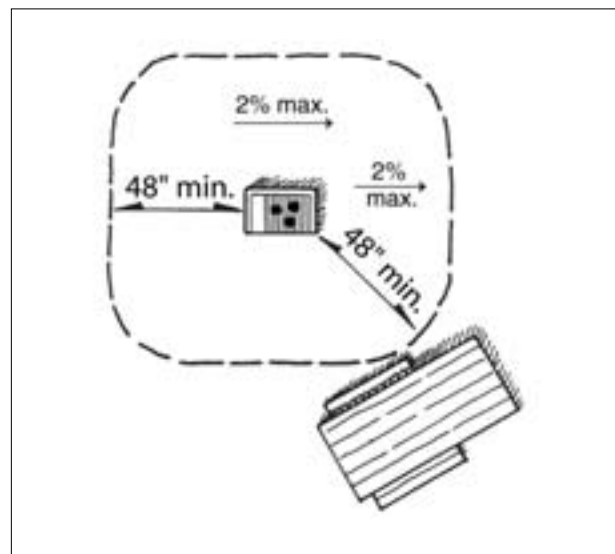


Figure 26-4

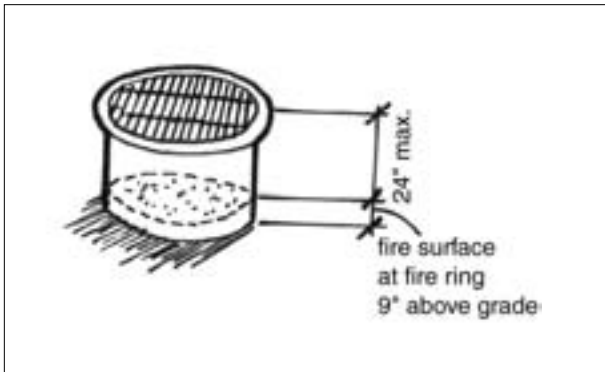


Figure 26-5

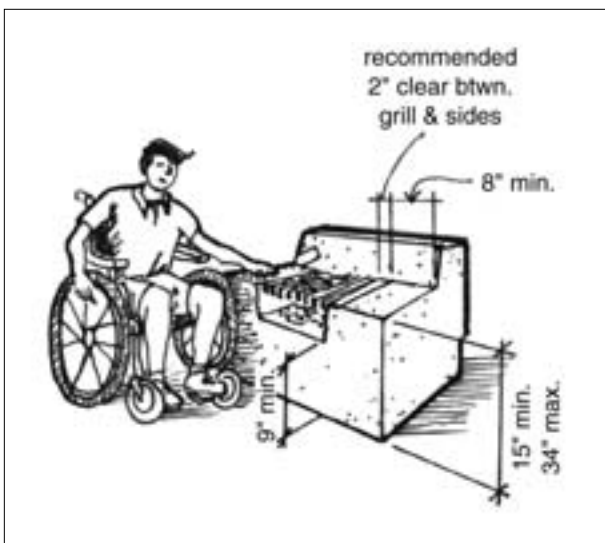


Figure 26-6



Figure 26-7

F. All cooking surface heights shall be between 15" minimum and 34" maximum above the ground level (**Figures 26-6 & 26-7**).

CBC-1129B.4.2

V. WATER FAUCETS

A. Faucets shall be located adjacent to a clear, stable, firm ground surface area at least 60" x 60" in size. Faucets shall be configured to allow a forward approach (**Figure 26-8**).

99AG-16.16.3

B. A 2% slope shall be allowed to drain toward the faucet drain (3% slope when necessary for drainage). Drain grating shall have a maximum opening of 1/2".

99AG-16.16.4/CBC-1124B.4

C. The faucet lever(s) shall be located 28" to 36" above the ground (does not apply to hand pumps) and shall be operated by a push button or lever actuator that requires no more than 5 lbs. of pressure (**Figure 26-8**).

99AG-16.16.2-3/ADAAG-4.27.4

VI. TRASH AND RECYCLING RECEPTACLES

A. The picnic area shall have a trash receptacle at the site or on an accessible route to the site.

ADAAG-16.8.1

B. The trash and/or recycling receptacle shall be located on stable, firm ground with a clear space minimum of 30" x 48" and a slope of 2% (3% allowed if necessary for drainage) (**Figure 26-9**).

99AG-16.8.2-4

C. The trash and or recycling receptacle opening and/or operating mechanism shall be between 15" and 48" above the ground for front approach and between 9" and 54" for side approach (**Figure 26-10**).

ADAAG-4.27.3

D. Receptacle openings shall be operable with a single hand manipulation and require less than 5 lbs. of pressure to operate. This requirement does not apply to hinged lids and controls designed to exclude large animals.

99AG-16.8.5/ADAAG-4.27.4

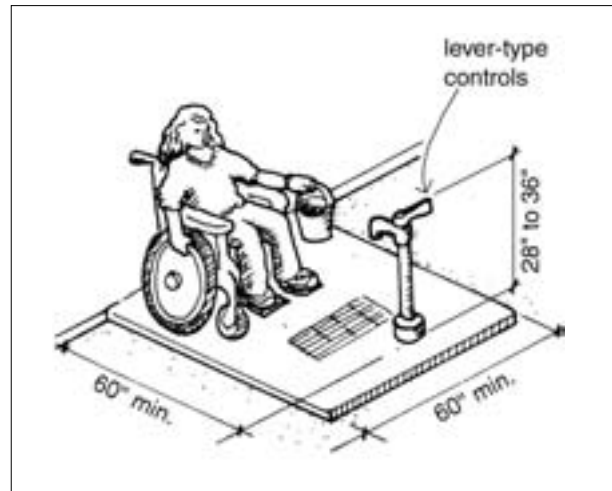


Figure 26-8

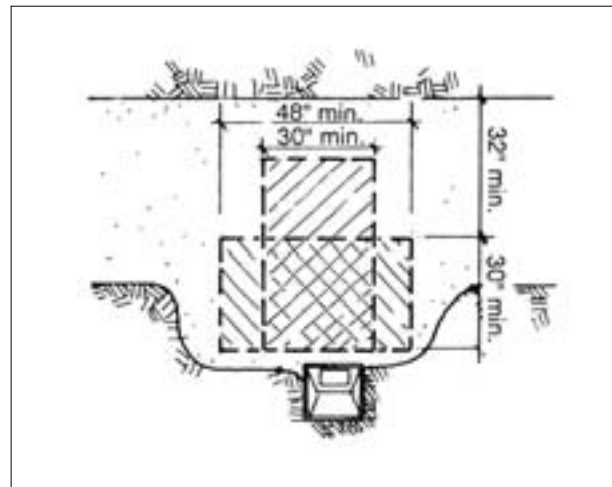


Figure 26-9

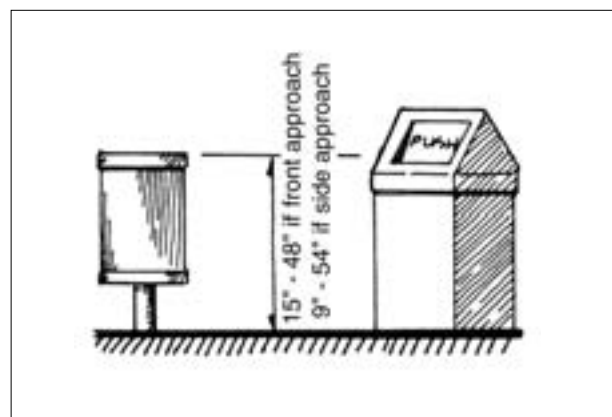


Figure 26-10

Portable Toilets

I. CONCEPT

A. Portable toilets/restrooms should only be used as a temporary facility until an accessible restroom can be repaired/built or as a means to provide additional restroom availability for special events.

B. At all locations where portable toilets are provided, at least one accessible portable shall be provided. If portables are provided in groups of ten or more at a location, there shall be at least two accessible portables for each ten toilets.

ADAAG-4.1.2.(6)

C. *Refer to Restrooms, Section 31 for applicable specifications.*

II. GUIDELINES

A. Whenever portable toilets are required, including portable toilets for special events and concessions, the minimum number of accessible toilets shall be 5% of the total available, but no less than 1.

ADAAG-4.1.2.(6)

Public Telephones

I. CONCEPT

A. At least 50%, but no less than 1, of all permanently installed telephones for public use, including pay phones, shall be accessible.

CBC-1117B.2.1

B. Telephones shall be located on an accessible route of travel. (*Refer to Routes of Travel, Section 32.*)

II. VOLUME CONTROL

A. At least 25%, but no less than 1, of all public telephones shall be equipped with a volume control adjustable from 12 dBA to 18 dBA.

CBC-1117B.2.8

B. Public telephones with volume control shall be hearing aid compatible and shall be identified by a sign containing a depiction of a telephone handset with radiating sound waves (**Figure 28-1**).

CBC-1117B.2.8



Figure 28-1

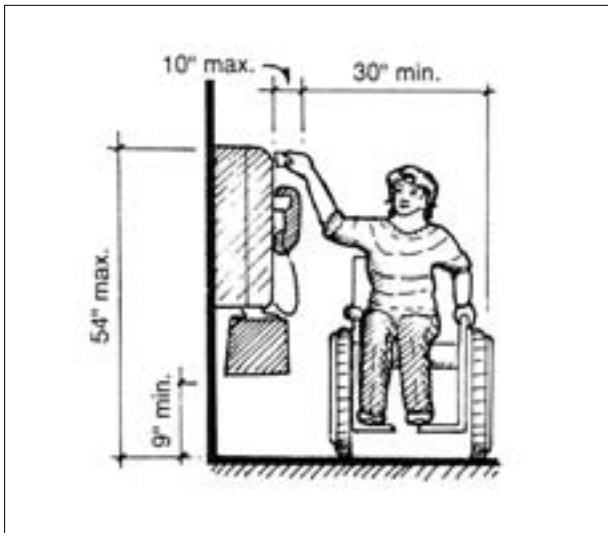


Figure 28-2

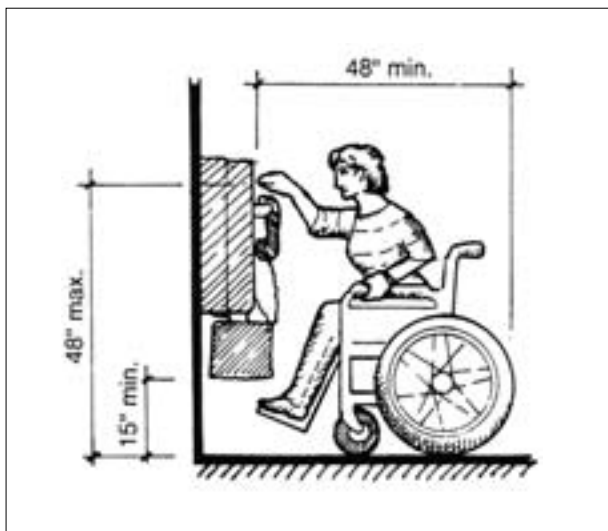


Figure 28-3

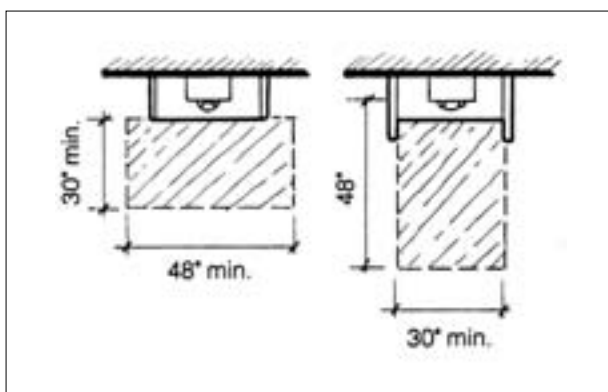


Figure 28-4

III. OPERATING MECHANISMS

A. In addition to a volume control, accessible telephones shall have a cord length of at least 29" and shall have push-button controls where service for such equipment is available.

CBC-1117B.2.11

B. Telephone controls, including coin slots, shall be located between 9" and 54" above the floor for side approach and between 15" and 48" for forward approach (Figures 28-2 & 28-3).

CBC-1117B.6/CBC-1118B.5-6

IV. CLEARANCES

A. There must be a clear level space that measures at least 30" x 48" at the front of the telephone (Figure 28-4).

CBC-1117B.2.2

V. TELEPHONE ENCLOSURES

A. If the telephone is in an alcove, there must be an additional maneuvering space of 24" deep by 30" wide or 15" deep by 48" wide provided.

CBC-1117B.2.4

- B.** If the telephone is in a full height enclosure, the minimum width must be 30".

CBC-1117B.2.7.2

- C.** If the telephone is a side reach phone in a partial enclosure, the overhang shall be no greater than 19" deep and the height of the lowest overhanging part shall be equal to or greater than 27".

CBC-1117B.2.7.1

- D.** If the telephone is a front reach phone and the overhang is greater than 12", the clear width of the enclosure must be 30" minimum.

CBC-1117B.2.7.3

- E.** If the telephone is a front reach phone in a partial enclosure and the clear width of the enclosure is less than 30", the height of the lowest overhanging part must be equal to or greater than 27".

CBC-1117B.2.7.1-3

- F.** If the telephone is in an enclosure and if the leading edge of the enclosure is between 27" and 80" above the floor, it can only protrude a maximum of 4" into the accessible route.

CBC-1121B.1

VI. REACHES

- A.** The reach to the telephone over an obstruction must be 25" or less.

CBC-1118B.5

- B.** If the reach over an obstruction is less than 20", the maximum height of the telephone controls shall be 48".

CBC-1118B.5

- C.** If the reach over an obstruction is 20" to 25", the maximum height of the telephone controls shall be 44".

CBC-1118B.5

- D.** If obstructed, leg room shall be greater than or equal to the depth of the reach.

CBC-1118B.5

- E.** If a telephone directory is provided, its location shall comply with appropriate reach ranges.

CBC-1118B.6

VII. TEXT TELEPHONES

- A.** Additionally, at least one accessible text telephone shall be provided if there are a total of 4 or more phones in the building.

CBC-1117B.2.9.1



Figure 28-5

B. Telephone typewriters (TTY) or text telephones (TT) shall be identified by the International TTY Symbol. **(Figure 28-5)** Directional signage to the location of the text telephone shall be provided .

CBC-1117B.2.9.3

Publications

I. CONCEPT

A. All new or reprinted Department publications shall be prepared using the following parameters based on the Americans with Disabilities Act of 1990 (ADA). This policy applies to publications developed at the headquarters, district or unit level, including items produced by cooperating associations and concessionaires and park program materials. Publications include brochures, booklets, books, announcements, advertisements, park maps, campground maps, plans, technical reports and newsletters.

II. PUBLIC INFORMATION

A. Publications shall integrate information about accessible features with general descriptive information regarding park sites and facilities. A standard symbol of accessibility shall be used to locate accessible features on maps and to identify the location of accessibility information within the publication text.



B. Publications shall state the availability of a teletypewriter (TTY), if available and provide the TTY number. If a TTY is not available, the publications shall include the following statement “711, TTY Relay Service.”

C. Publications shall incorporate the following standardized accessibility statement, “California State Parks does not discriminate against individuals with disabilities. Prior to arrival, visitors with disabilities who need assistance should contact (contact and phone number).” This statement encourages visitors to request assistance, such as American Sign Language (ASL) interpretation for the deaf. There are other languages that are used, including Signed Exact English (SEE), Manual Coded English (MCE) or Pidgin Signed English (PSE). A visitor may prefer Real Time Captioning.

D. All publications shall be provided in alternate formats. Publications shall state: “This publication is available in alternate formats by contacting (contact and phone number).”

E. Publications, publicity flyers, advertisements and meeting announcements for events in which an oral presentation is a significant part of the event shall include the following statement: To request a sign language interpreter or other auxiliary aids or services for people with disabilities, please contact (appropriate staff person—District Accessibility Coordinator or event coordinator, with contact number).

QSLI Policy

F. Alternate formats include audio tape recordings, large print, Braille, electronic file and Internet.

III. STANDARD TYPE FONT SIZE

A. Standard type font size for publications text is 12 point. Fonts should be easy to read and may be either Serif or Sans Serif. "Sans serif" means without any short lines stemming from and at an angle to the upper and lower ends of the strokes of a letter. Sans Serif is generally recommended (**Figure 29-1**).

This is an example of 12 point font (Arial).

IV. LARGE PRINT

A. Printed park visitor information shall be available upon request in large print format.

B. Large print materials shall be at least 18 point size in sans serif type font. (**Figure 29-1**).



Figure 29-1

V. CONTRAST

A. To enhance readability, dark print or graphics should be used on a light background, with at least a 70% contrast. Reversed light print with a dark background with at least a 70% contrast may be acceptable.

VI. SYMBOLS

A. International recreation symbols should be used on park maps whenever possible to identify areas, facilities or points of interest.

VII. READABILITY

A. Publications shall be easy to read. Concise sentences without slang or academic jargon should be used whenever possible.

VIII. COMPLIANCE REVIEW

A. All new or redesigned publications of park visitor information, such as the California State Parks Official Map, the Reservations Brochure and individual park brochures, shall be reviewed by the Accessibility Section before printing. This review shall be scheduled to coincide with the appropriate stage of review during design of each publication. The Accessibility Section will review for content on accessible features, type and other items.

B. Reference:

See Departmental Notice, DN2000-07, Accessibility and Publications Policy.

Ramps

I. CONCEPT

A. Ramps are only used on Exterior Routes of Travel (ERT) and Accessible Paths of Travel (POT). Ramps are not required on Outdoor Recreation Access Routes (ORAR) or trails. *(Refer to Routes of Travel, Section 32.)*

B. Notwithstanding curb ramps, whenever the slope on an ERT or POT exceeds 5%, a ramp must be provided.

ADAAG-4.8.1/CBC-1133B.5.1

II. WIDTH

A. Pedestrian ramps serving primary entrances to buildings having an occupant load of 300 or more shall have a minimum clear width of 60" **(Figure 30-1).**

CBC-1133B.5.2.2

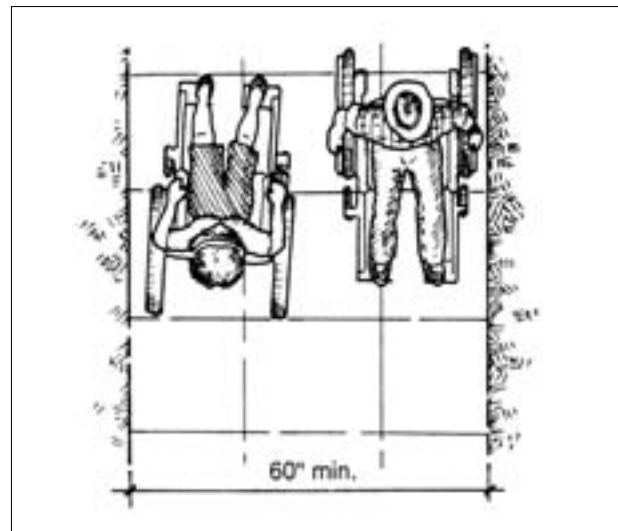


Figure 30-1

Ramps

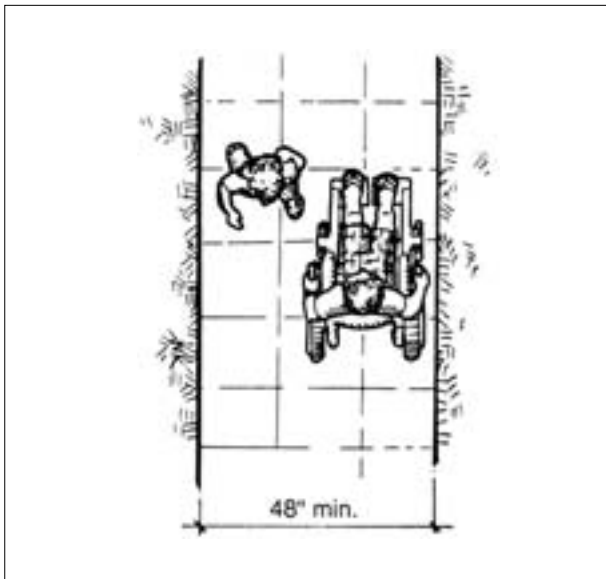


Figure 30-2

B. All other ramps shall have a minimum width of 48" (**Figure 30-2**). Exception: 36" minimum width is allowed for some Group Residential occupancies.

CBC-1133B.5.2.1

III. SLOPES

A. The maximum linear slope on the ramp shall not exceed 8.3%.

ADAAG-4.8.2/CBC-1133B.5.3

B. The maximum cross slope on the ramp shall not exceed 2%.

ADAAG-4.8.6/CBC-1133B.5.3.1

C. Outdoor ramps and their approaches shall be designed so that water will not accumulate on walking surfaces.

ADAAG-4.8.8

IV. LANDINGS

A. Ramps shall have level landings (2% max gradient) at top, bottom and each change of direction. Intermediate landings shall be provided at intervals not exceeding 30" of vertical rise (**Figure 30-3**).

ADAAG-4.8.4/CBC-1133B.5.4.1

B. Top landings shall not be less than 60" wide and shall have a length of at least 60" in the direction of the ramp run (Figure 30-3).

ADAAG-4.8.4/CBC-1133B.5.4.2

C. At the bottom and intermediate landings, the width shall be at least the same as the width of the ramp (Figure 30-3).

CBC-1133B.5.4.5

D. Intermediate landings at a change of direction shall be a minimum of 60" x 72". Bottom landings shall have a dimension of not less than 72" in the direction of ramp run (Figure 30-3).

ADAAG-4.8.4/CBC-1133B.5.4.6-7

E. Landings that have a vertical drop greater than 4" shall have a curb at least 2" high or a wheel guide rail 2" to 4" high.

CBC-1133B5.4.9

F. Doors or gates in any position shall not reduce the minimum dimension of the landing to less than 42" and shall not reduce the required width by more than 3" when fully open.

CBC-1003.3.4

G. The width of the landing shall extend 24" past the strike edge of any door or gate for exterior ramps and 18" past the strike edge for interior ramps.

CBC-1133B.5.4.4

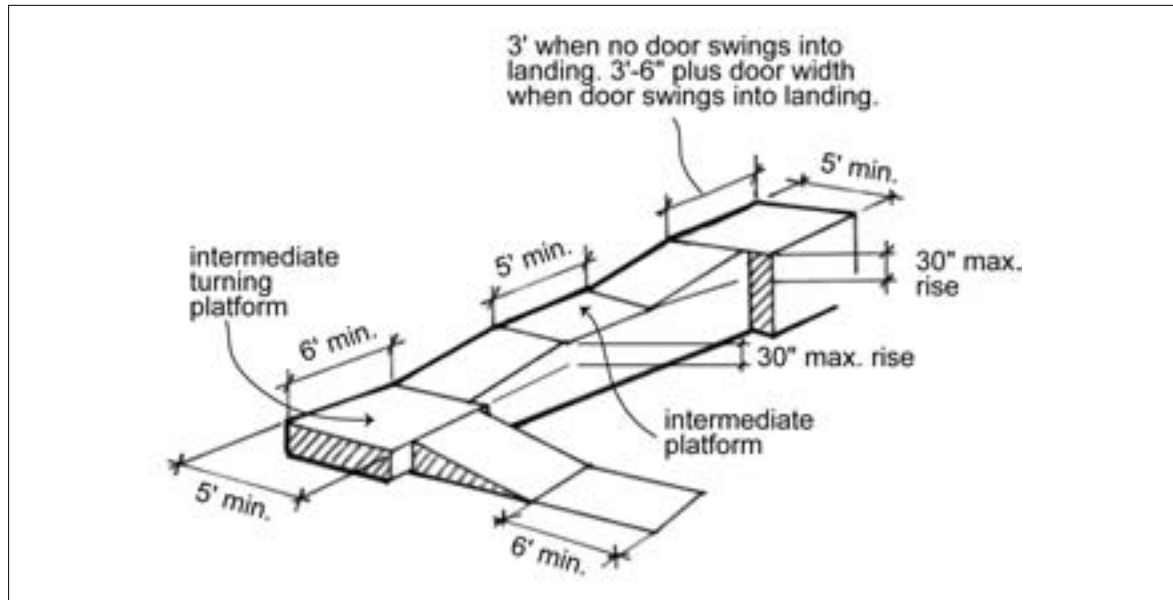


Figure 30-3

Ramps

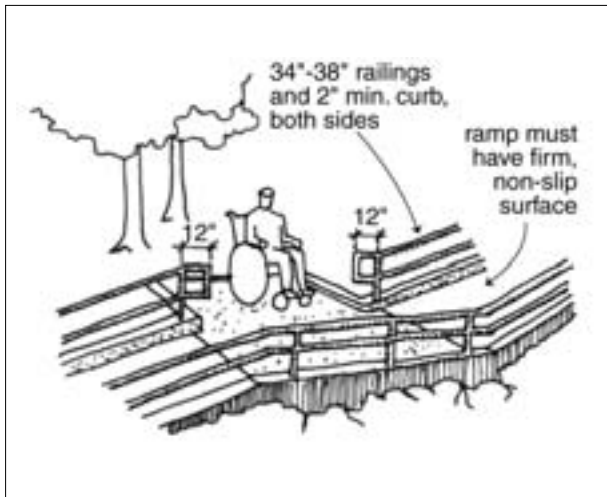


Figure 30-4

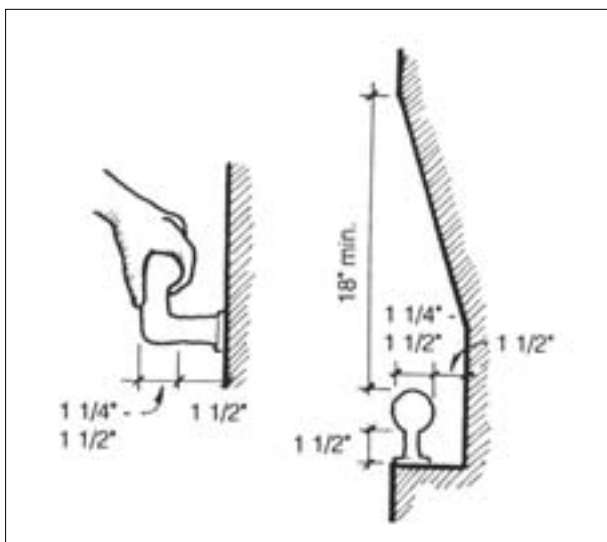


Figure 30-5

V. HANDRAILS

A. If the linear slope is greater than 5%, handrails are required on both sides of a ramp. On exterior door landings, handrails are not required on ramps with less than 6" rise or 72" length.

ADAAG-4.8.5/CBC-1133B.5.5.1

B. Handrails shall be continuous the full length of the ramp, shall be 34" to 38" above the ramp surface and parallel to it, shall extend a minimum of 12" beyond the top and bottom of the ramp and the ends shall be rounded or returned (**Figure 30-4**). Where extension of the handrail in the direction of the ramp would create a hazard, the extension of the handrails for ramps shall comply with section CBC -1133B.4.2.4, or the extension on the handrail may be turned 90° to the run the ramp.

CBC-1138.5.5.1.1/ADAAG-4.8.5(2)

C. The inside handrail on switchback or dogleg ramps shall always be continuous.

ADAAG-4.8.5(1)

D. Handrails projecting from a wall shall have a space of 1 1/2" between the wall and the handrail (**Figure 30-5**).

ADAAG-4.8.5(3)/CBC-1133B.5.5.1

E. The grip surface shall be smooth, continuous, non-slip and have no sharp edges or corners. The diameter of the grip portion of the handrail shall be no less than 1 1/4" and no greater than 1 1/2" (**Figure 30-5**).

CBC-1133B.5.5.1

F. Handrails shall not rotate within their fittings. The edge of the handrail must have a minimum radius of 1/8".

ADAAG-4.8.5(7)/CBC-1133B.5.5.1

G. The structural strength of the handrail must resist a 250 lbs. force in any direction.

ADAAG-4.26.3(1)

VI. EDGE PROTECTION

A. Where the ramp surface is not bound by a wall or fence and the ramp has a drop-off, one of the following is required:

ADAAG-4.8.7/CBC-1133B.5.6.1-2

1. A 2" guide curb on both sides of the ramp (**Figure 30-4**).
2. A wheel-guide rail centered 2" to 4" above the ramp surface.

B. Ramps more than 30" above the adjacent ground shall be equipped with handrails and guardrails that are continuous from top to bottom.

CBC-1133B.5.7

VII. SURFACE

A. The surface of the ramp shall be stable, firm and slip resistant.

ADAAG-4.5.1/CBC-1124B.1

B. Surface changes in elevation shall be 1/4" maximum. Surface elevation changes between 1/4" and 1/2" shall be beveled at a 1:2 ratio.

ADAAG 4.5.2/CBC-1124B.2

Restrooms

I. CONCEPT

A. Access to restrooms shall comply with all subsections of Title 24 of the California Code of Regulations (CCR). The Code details and specifies all requirements relating to toilets, showers, lavatories, drinking fountains, fixtures and controls.

B. Restrooms shall be located on an accessible route of travel. (*Refer to Routes of Travel, Section 32*).

C. Exterior entry doors shall be accessible. (*Refer to Doorways, Section 13*).

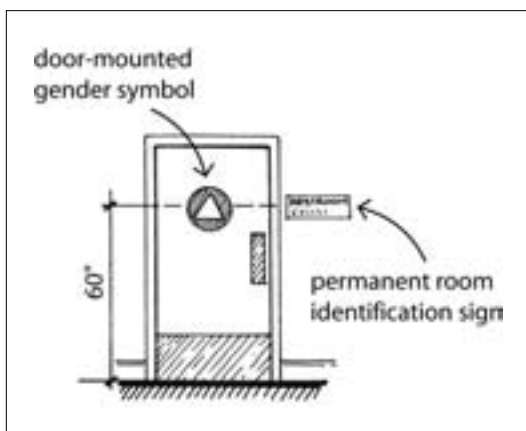


Figure 31-1

II. SIGNAGE

A. All restroom entrance doors, both single user and multi-stall, shall have 2 signs (**Figure 31-1**):

1. Door mounted gender symbols shall identify each sanitation facility or toilet room.
 - a. Signs shall be at least $\frac{1}{4}$ " thick and be mounted on the center of the door and 60" above the floor:

CBC-1115B.5

 - 1). Women's: 12" diameter circle, $\frac{1}{4}$ " thick.
 - 2). Men's: 12" equilateral triangle, $\frac{1}{4}$ " thick, vertex facing up.
 - 3). Unisex: 12" triangle, $\frac{1}{4}$ " thick, superimposed on a 12" circle, $\frac{1}{4}$ " thick.

Restrooms

- b. Color shall contrast with the color of the door.
CBC-1115B.5
 - c. Gender pictographs may be included on the sign, but should be at least 6" high and have a color contrasting with the sign.
CBC-1117B.5
 - c. Signs shall be approachable to within 3" without encountering protruding objects or swinging doors.
CBC-1117B.5
 - d. Gender shall also be indicated on the sign in Grade II Braille immediately below the text.
CBC-1117B.5.6
 - e. Text color shall contrast with sign background.
CBC-1117B.5
- 2. Room identification signs for permanent rooms, such as restrooms, shower rooms, changing rooms, etc. shall also be provided with a sign to identify the room. The ISA symbol shall be included on this sign to identify that the room provides accessible accommodations (**Figure 31-1**).
 - a. Gender pictographs may be included on the sign, but the pictograph field should be at least 6" high and have a color contrasting with the sign.
CBC-1117B.5
 - b. Lettering shall be sans serif upper case text with characters 5/8" to 2" high and raised 1/32" minimum.
CBC-1117B.5.6.1

III. TOILET STALL

A. Every restroom shall have at least one accessible stall.

B. If six or more stalls are provided, at least one shall be side transfer (**Figure 31-2**), and at least one additional stall should be 36" wide with an outward swinging, self-closing door and have parallel grab bars (**Figure 31-3**).

CBC-1115B.7.1.5

C. The toilet stall shall have a clear, unobstructed opening width of 32" (34" if side opening instead of end opening) (**Figures 31-2, 31-4, and 31-5**).

CBC-1115B.7.1.4

D. The toilet stall shall be equipped with a self-closing door that can be opened and latched shut with a closed fist.

CBC-1115B.7.1.4

E. When standard compartment doors are used, with a minimum 9" door undercut and self-closing device, full strike side clearance is not required.

CBC-1115B.7.1.4

F. The stall door latch, mounted 30" to 44" above the floor, shall be flip-over, sliding or similar style not requiring grasping or twisting.

CBC-1115B.7.1.4

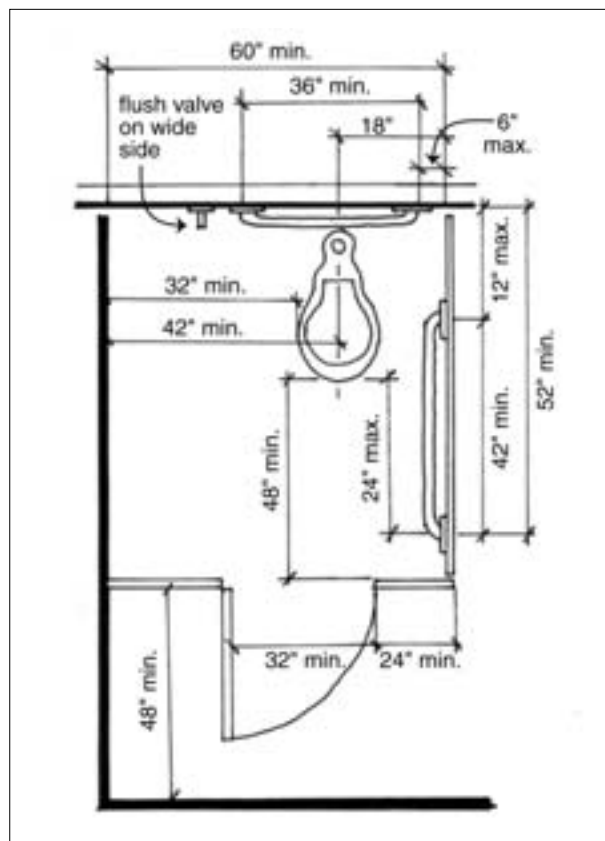


Figure 31-2

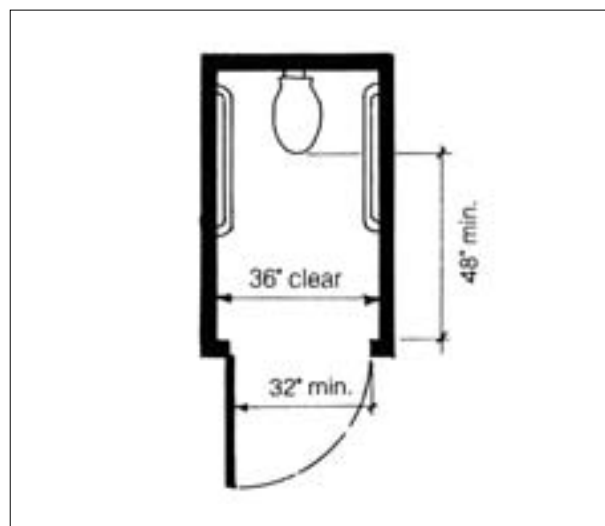


Figure 31-3

Restrooms

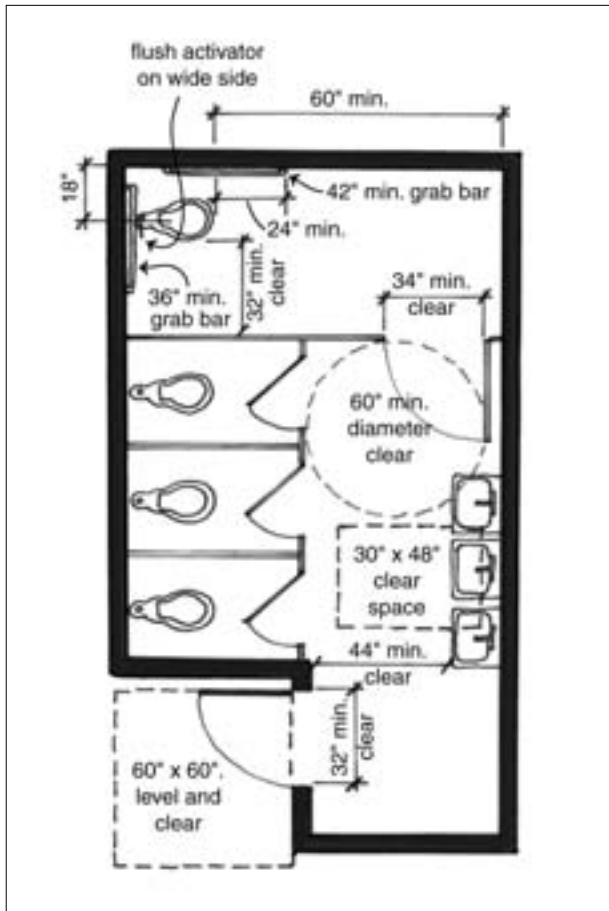


Figure 31-4

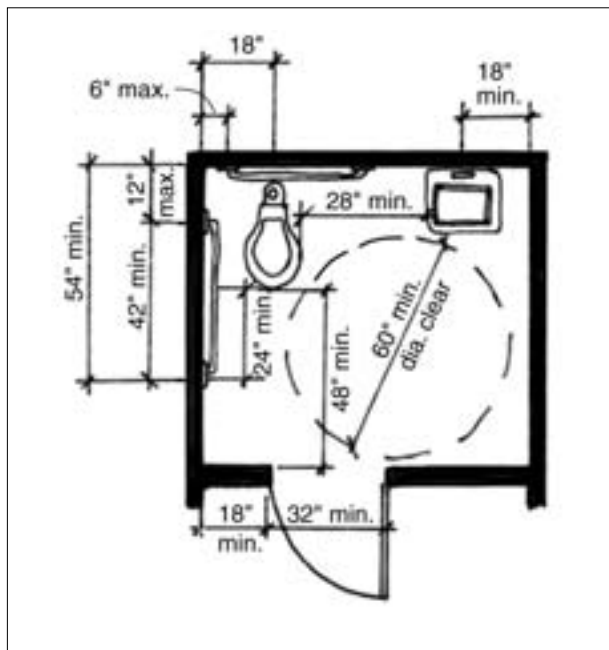


Figure 31-5

G. A water closet fixture shall have the following:

1. A minimum 28" wide clear space from fixture (**Figure 31-5**) or minimum 32" wide space from wall at one side of water closet (**Figure 31-2**).

ADAAG-4.17.3/CBC-1115B.7.1.3

The other side shall be 18" from the center line of the toilet to the face of the wall finish.

2. A minimum 48" long clear space in front of the water closet, if compartment has an end-opening door. A minimum of 60" shall be provided if the door is located at the side (**Figure 31-4**).

ADAAG-4.17.3

3. The height of the top of the toilet seat should be between 17" and 19" (**Figure 31-6**).

CPC-1502/CBC-1115B-1

4. If there is a common area outside the stalls, a clear space should be provided measuring a 60" circle or a space of 56" x 63" to a height of 27" from the floor (**Figure 31-4**).

CBC-1115B.7.1.1

H. The maximum pressure required to open the stall door must be 5 lbs. or less.

CBC-1133B.2.5

I. If clothes hooks or shelves are provided, they must be within the following reach ranges:

CBC-1118B.5-6/CBC-1125B.3

1. 1. 9" – 54" for side reach.
2. 34" – 46" for side reach over an obstruction.
3. 15" – 48" for forward reach.
4. 20" – 44" for forward reach over an obstruction.

J. No door may encroach into the 60" diameter clear space or the 56"x 63" (T-shaped) maneuvering area more than 12", except the standard toilet room compartment doors within a multiple accommodation restroom.

CBC-1115B.7.1-2

K. There shall be a 44" minimum wide access to the accessible stall and a space in front of the accessible stall a minimum of 48" measured at a right angle to the closed door position (**Figure 31-2**).

CBC-1115B.7.1.4

L. Doors in any position shall not encroach into the 30"x 48" maneuvering space in front of a fixture.

CBC-1115B.7.2

IV. GRAB BARS

A. Grab bars located on each side, or on one side and back of toilet, shall be securely attached 33" above and parallel to the floor (up to 36" for tank type toilets) (**Figure 31-6**).

CBC-1115B.8.1

B. Grab bars at the back shall be no less than 36" long.

CBC-1115B.8.1

C. The wall with the grab bars at the side shall be located 18" from the centerline of the water closet stool, and grab bars shall be at least 42" long, with front end at 24" in front of the water closet stool and 52" minimum from the back wall if water closet is located in a stall and 54" minimum if the water closet is not located in a stall (**Figure 31-2 & 31-5**).

*CBC-1115B.7.1.3,
CBC-1115B.8.1/ADAAG*

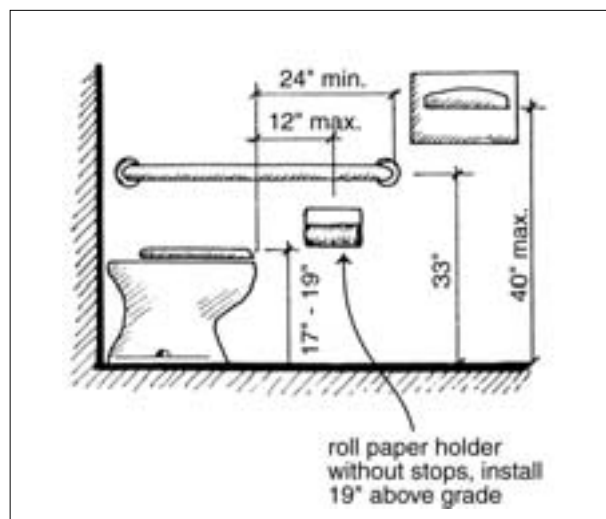


Figure 31-6

Restrooms

- D.** Grab bars shall not rotate in their fittings and shall support a 250 lb. point load.

CBC-1115B.8.3.1-5

- E.** Diameter or width of the gripping surface shall be 1 1/4" to 1 1/2" or the shape shall provide an equivalent gripping surface (**Figure 31-7**).

CBC-1115B.8.2

- F.** If grab bars are mounted adjacent to a wall, the space between the wall and grab bars shall be 1 1/2" (**Figure 31-7**).

CBC-1115B.8.2

- G.** Surface of grab bars shall be free of sharp edges or abrasive elements.

CBC-1115B.8.4

- H.** Minimum radius of all edges shall be 1/8".

CBC-1115B.8.4

- I.** Grab bars shall encroach no more than 3" into clear space.

CBC-1115B.7.1.3

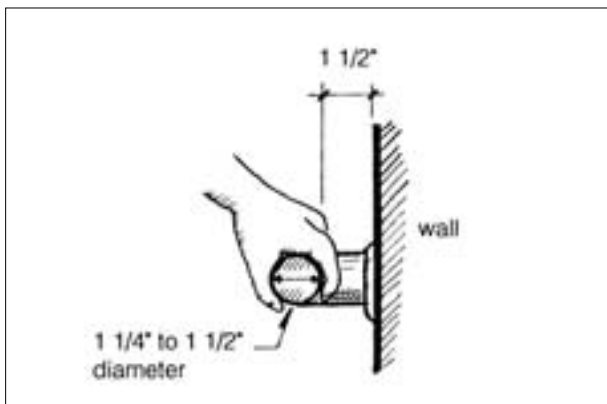


Figure 31-7

V. FIXTURE CONTROLS

- A.** Controls for flush valve shall be mounted on the wide side of toilet areas or urinals 44" or less above the floor.

ADAAG-4.16.5/CPC-1502

- B.** Controls are designed well if they can be operated with a closed fist.

ADAAG-4.27.4/CPC-1502

- C.** Controls and operating mechanisms shall be operable with one hand and not require tight grasping, pinching or twisting of the wrist.

ADAAG-4.27.4/CPC-1504.2.1

- D.** Force required to activate controls shall be no greater than 5 lbs.

ADAAG-4.27.4/CPC-1502

- E.** Lever operated, push-type and electronic controls are preferred control mechanisms.

ADAAG-4.19.5

VI. DISPENSERS

- A.** Toilet paper dispensers shall be installed within 12" horizontally of the front of the toilet seat, and to a minimum of 19" above the floor (**Figure 31-6**).

ADAAG-4.16.6/CBC-1115B.9.3

B. Roll toilet paper dispensers that allow continuous flow of paper shall be used (**Figure 31-6**).

ADAAG-4.16.6/CBC-1115B.9.3

C. Paper dispensers cannot restrict use of grab bars.

D. Towel dispensers, air dryers, waste receptacles, coin slots, etc. shall have 30" x 48" level clear space in front and shall be mounted with accessible controls no more than 40" above the floor.

CBC-1115B.9.2/CBC-1118B.4.1

E. Dispensers shall operate with one hand and not require grasping, pinching or twisting of the wrist.

ADAAG-4.27.4/CBC-1117B.6.4

F. Shelves, if provided, shall be within the following reach ranges:

CBC-1118B.5-6/CBC-1125.3

1. 9" – 54" for side reach.
2. 34" – 46" for side reach over an obstruction.
3. 15" – 48" for forward reach.
4. 20" – 44" for forward reach over an obstruction.

G. All levers, dispensers, dryers, etc. must be operable with a maximum pressure of 5 lbs.

CBC-1117B.6.4

VII. URINALS

A. Where provided, at least one shall have a clear floor space of 30" x 48" in front of the urinal space to allow forward approach.

ADAAG-4.18.3/CBC-1115B.9.4

B. Where provided, at least one shall have a rim projecting a minimum of 14" from the wall and a maximum of 17" above the floor.

ADAAG-4.18.2/CPC-1503.2.1

VIII. LAVATORIES

A. Minimum clear space of 30" x 48" shall be provided in front of the lavatory to allow forward approach (**Figure 31-9**).

CBC-1115B.9.1.1

B. Maximum rim height above the floor is 34" (**Figure 31-8**).

ADAAG-4.19.2/CPC-1504.2.1

C. Lavatories shall be mounted with a clearance of at least 29" from the floor to the bottom of the apron (**Figure 31-8**).

ADAAG-4.19.2/CPC-1504.2.1

D. Knee clearance is required under the lavatory 27" from the floor at a point located 8" back from the front edge. In addition, a minimum 9" high toe clearance must be provided extending back toward the wall to a distance no more than 6" from the back wall. The toe clearance space must be free of equipment or obstructions. Knee clearance below the

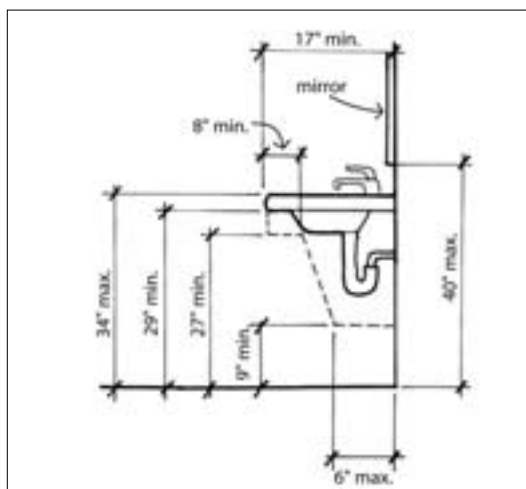


Figure 31-8

lavatory shall extend a minimum of 30" in width by 17" and 19" maximum in depth (**Figure 31-8**).

ADAAG-4.19.2/CPC-1504.2.1

E. Toe clearance shall be the same width and shall be a minimum of 9" high from the floor and a minimum of 17" deep from the front of the lavatory (**Figure 31-8**).

ADAAG-4.19.2/CPC-1504.2.1

F. Hot waterlines and drainpipes under lavatories shall be insulated or otherwise covered.

ADAAG-4.19.4/CPC-1504.2.2

G. No sharp or abrasive surfaces under the lavatories.

ADAAG-4.19.4/CPC-1504.2.2

H. If the lavatory is adjacent to a wall, there must be a minimum 18" from the wall to the centerline of the sink (**Figure 31-5**).

CPC-1504.2.1

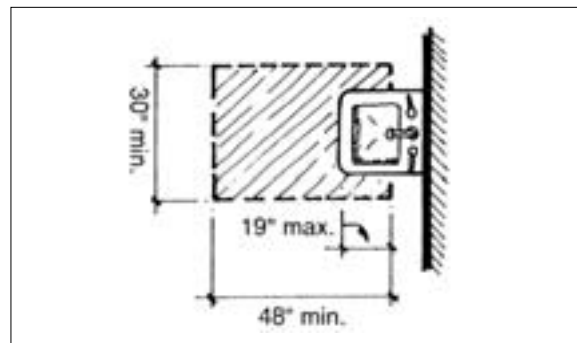


Figure 31-9

- I.** Controls must be operable without grasping, pinching or twisting of the wrist (operable with a closed fist).

CPC-1504.2.1/ADAAG-4.27.4

- J.** Controls must be activated with a force of 5 lbs. or less.

ADAAG-4.27.4/CPC-1504

- K.** Faucets may be lever type or self-closing. Self-closing must close after 10 seconds or longer.

ADAAG-4.19.5/CPC-1504.2.1

IX. MIRRORS

- A.** Mirrors shall be mounted with the bottom edge no higher than 40" from the floor (**Figure 31-8**).

CBC-1115B.9.1.2

X. LIGHT SWITCHES

- A.** Light switches should be located within the following reach ranges:

CBC-1117B.6/CBC-1118B.5-6

1. 9" – 54" for side reach.
2. 34" – 46" for side reach over an obstruction.
3. 15" – 48" for forward reach.
4. 20" – 44" for forward reach over an obstruction.

XI. FLOORS

- A.** The floor of the restroom must be firm, stable and slip resistant.

CBC-1124B.1

- B.** The maximum slope of the floor is 2% in any direction.

CBC-1115B.6.2.4.4

- C.** Changes in level shall be less than 1/4" or, if 1/4" to 1/2", they must be beveled at 50%. If over 1/2" they must be ramped.

CBC-1124B.2

- D.** Openings in gratings must be a maximum of 1/2" in one direction and, if elongated, must be perpendicular to the dominant direction of travel and flush with the floor.

CBC-1115B.6.2.4.4/CBC-1124B.4

- E.** The floor must be smooth, hard, non-absorbent and extend up the walls a minimum of 5".

CBC-1115B.9.5

- F.** Walls within the toilet stalls and walls within 24" of the front and sides of urinals should be smooth, hard, non-absorbent and finished to 48" above the floor.

CBC-1115B.9.5

Routes of Travel

I. CONCEPT

A. Routes of travel represent the primary path that a pedestrian would typically use to access a building, facility or activity. In the park setting there are two different types of routes that may be used to connect the elements within a use area. Which type of route to use depends upon the level of development in the area and the elements that are being connected. Trails and Beach Access Routes are also used throughout parks, but they are not appropriate routes for use to connect elements within a specific use area. *(Refer to Trails, Section 40, or Beaches and Shores, Section 5, for technical requirements for Trails or Beach Access Routes.)*

B. The most usable route for people with mobility impairments is the Exterior Route of Travel (ERT). The technical requirements for ERTs must be met in highly developed areas, such as paved parking lots to offices, visitor centers,

museums and restrooms. Since they are the easiest to use, the grade requirements for ERTs should be met whenever possible in the park setting.

C. Outdoor Recreation Access Routes (ORAR) are used to connect elements within a camping, picnic, or designated trailhead use area. Typical applications of ORARs are from a campsite to the restroom or campfire center, within a picnic area or between the picnic site and an activity area, such as a trailhead.

II. EXTERIOR ROUTES OF TRAVEL (ERT)

A. General:

1. The accessible route shall be the most practical and direct route possible. It shall incorporate the guidelines of curb ramps, ramps, etc. when necessary.

CBC-1127B.1

Routes of Travel

2. A sign displaying the International Symbol of Accessibility (ISA) at the primary entrance and at every major junction of the accessible route shall be installed. The sign shall be displayed to direct the user to an accessible entrance.

CBC-1127B.3

3. The slope in the direction of travel shall be a maximum of 5%. Where conditions dictate a slope greater than 5%, a ramp shall be provided. (*Refer to Ramps, Section 30.*)

ADAAG-4.3.7/CBC-1133B.7.3

4. Walkways with continuous gradients shall have level areas 60" in length at intervals of 400' (**Figure 32-1**).

CBC-1133B.7.6

5. If an accessible route is less than 60" wide, passing spaces at least 60" by 60" shall be located at maximum intervals of 200' (**Figure 32-1**).

ADAAG 4.3.4

6. The slope perpendicular to the direction of travel, cross slope, shall be a maximum of 2%.

ADAAG-4.3.7/CBC-1133B.7.1.3

7. The surface must be firm, stable and slip resistant. Surface changes in elevation shall be 1/4" maximum. Surface elevation changes between 1/4" and 1/2" shall be beveled at 50%. Surface elevation changes greater than 1/2" must be ramped.

ADAAG-4.3.8/CBC-1124B.1-2

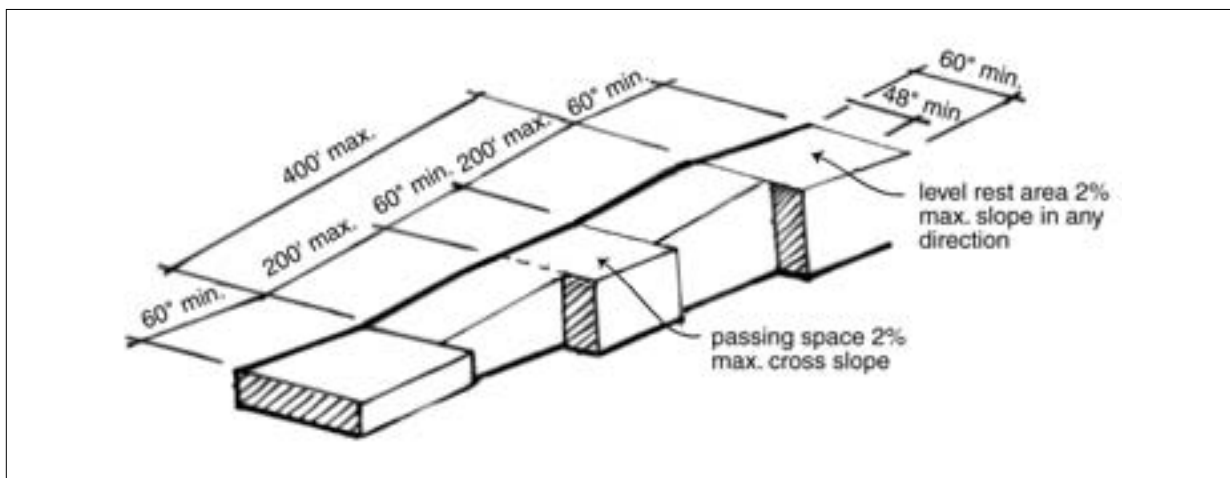


Figure 32-1

8. Route width shall be 48", except where undue hardship based upon right-of-way restriction, natural barriers or other existing conditions occur, in which case a minimum of 36" width is permitted. Surfaces shall be slip resistant (**Figure 32-2**).

CBC-1133B.7.1-3

B. Details:

1. Grate openings shall have spaces no greater than $\frac{1}{2}$ " wide and may be elongated, provided that long direction runs perpendicular to the primary direction of travel (**Figure 32-3**).

ADAAG-4.5.4/CBC-1124B.4

2. Exterior doormats shall be anchored or recessed to prevent interference with wheelchair traffic.

CBC-1133B.1.1.1.3

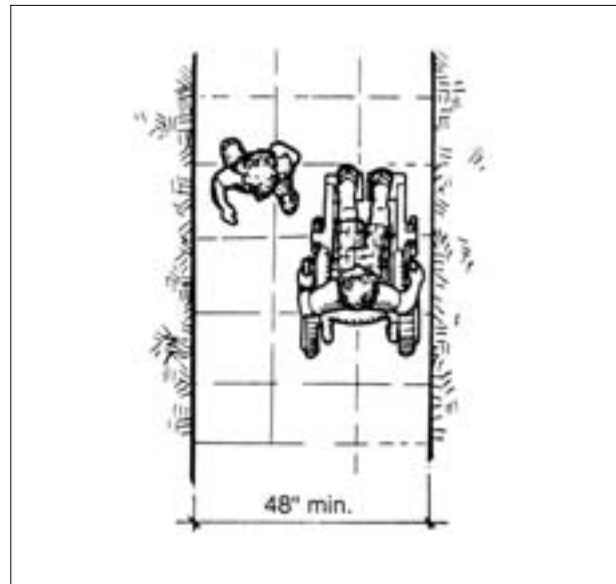


Figure 32-2

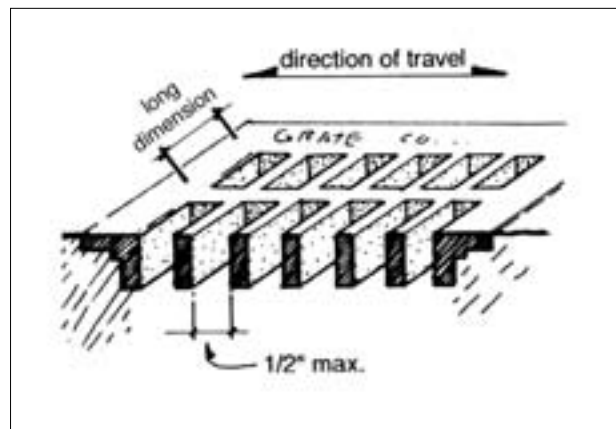


Figure 32-3

Routes of Travel

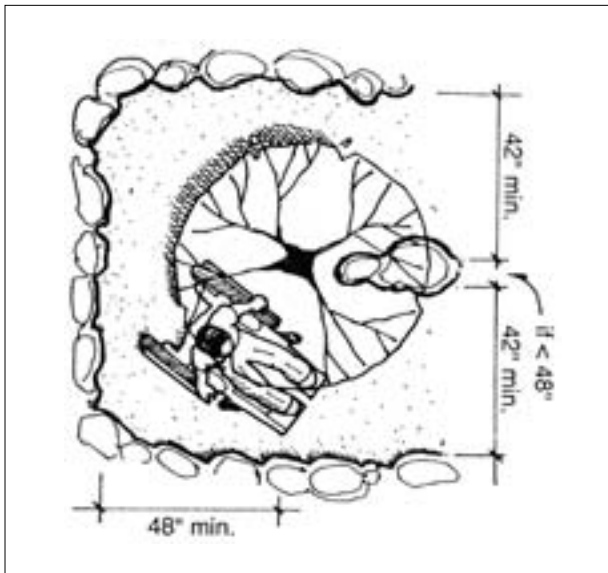


Figure 32-4

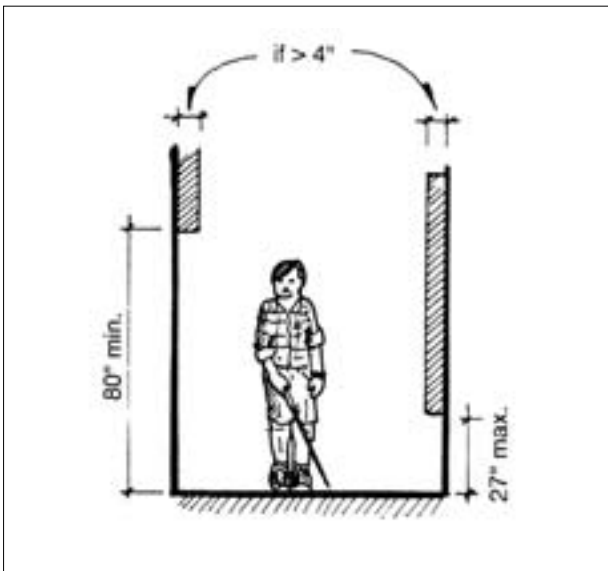


Figure 32-5

3. Where wheelchair traffic is expected to make a U-turn around an obstacle, the route width must be a minimum of 42" on the approach and 48" around the obstacle (**Figure 32-4**).

ADAAG-4.3.3

4. Where the route is less than 60" in width, a 60" x 60" passing space shall be provided at intervals of 200'.

ADAAG-4.3.4

5. Objects that protrude into the accessible route with their leading edge between 27" and 80" from the ground, such as a telephone, shall not protrude more than 4". Objects mounted below 27" may protrude any amount but shall not reduce the clear width of the accessible route (**Figure 32-5**).

ADAAG-4.4.1/CBC-1133B.8.6

6. Vertical clearance on the accessible route shall be 80". If the vertical clearance of an area adjoining the accessible route is less than 80", a cane detectable barrier to warn the visually impaired shall be provided **(Figure 32-6)**.

ADAAG-4.4.2/CBC-1133B.8.6.2

7. Except at walks adjacent to streets or driveways where changes in level are greater than 4" in vertical dimension occur, such as planters or fountains, a 6" high warning curb or a handrail with guide rails centered at 2" to 4" above the ground shall be installed.

CBC-1133B.8.1

8. Detectable ground surface or pavement warnings shall be provided where the access route crosses or adjoins a vehicular travel way, or a transit-boarding platform, that is not separated by a curb, guardrails or handrails.

CBC-1133B.8.3-5

9. Detectable warnings shall be durable, slip-resistant, truncated domes with an inline grid that extends 24" minimum in the direction of travel. Domes shall have a diameter of 0.9" at the bottom, a diameter of 0.4" at the top, a height of 0.2" and a center-to-center spacing of 2.35",

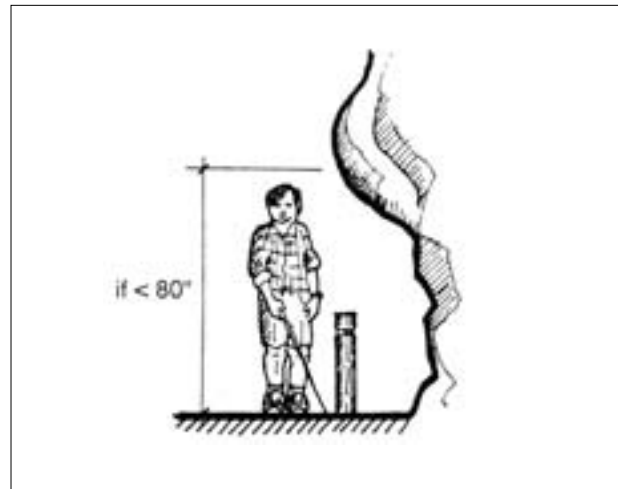


Figure 32-6

Routes of Travel

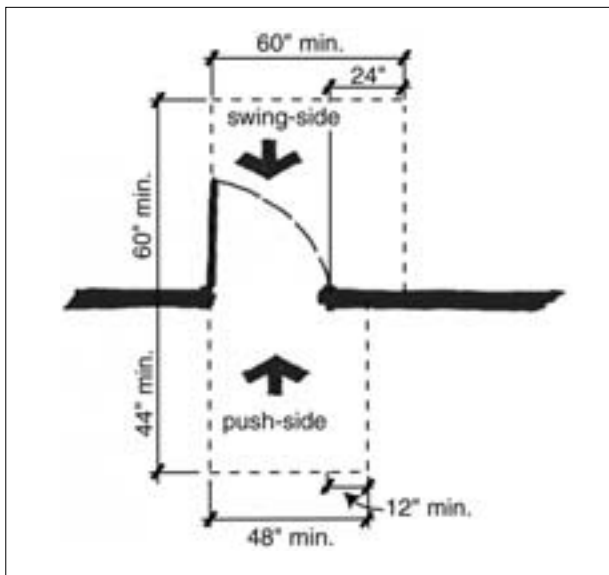


Figure 32-7

measured along one side of a square grid (for acceptable deviations in dome shape, contact the Accessibility Section. The detectable warnings shall contrast visually from the adjacent surface both in color and in resiliency or sound upon contact with a cane. Additional requirements apply at passenger loading zones on transit boarding platforms.

CBC-1133B.8.3

10. A level area of at least 60" x 60" shall be provided on the pull side of any door or gate and shall extend 24" to the side of the strike edge. A level area of 48" wide x 44" deep shall be located on the push side of any door or gate (**Figure 32-7**).

ADAAG-4.13.6/CBC-1133B.7.5

III. OUTDOOR RECREATION ACCESS ROUTES (ORAR)

A. General:

1. Running slopes in the direction of travel shall be as follows:

99AG-16.3.7.2.1-3

- a. 5% or less for any distance.
- b. From 5.1% to 8.3% for 50' maximum.

- c. From 8.34% to 10% for 30' maximum.
 - d. Slopes greater than 10% are not permitted.
2. Resting spaces shall be 60" minimum in length, shall have a width at least as wide as the route and have a slope of 3% or less. Exception: the slope of the resting space can be as great as 5%, if required for proper drainage. The installation of resting spaces is required as follows:

99AG-16.3.8

Percent slope	Max. length	Rest interval
0% to 5.0%	No restriction	No restriction
5.1% to 8.33%	50'	Every 50'
8.34% to 10%	30'	Every 30'

3. The surface of the ORAR shall be stable and firm.

99AG-16.3.1

4. The clear tread width shall be 36", except the width may be reduced to 32" for a distance of 24" maximum where existing conditions cannot be mitigated.

99AG-16.3.2

5. The slope perpendicular to the direction of travel, cross slope, shall be 3% maximum. Exception: the cross slope can be as great as 5%, if necessary for proper drainage.

99AG-16.3.7.1

B. Details:

1. Openings in the surface, such as on a boardwalk, cannot be greater than 1/2" wide. Elongated openings shall be placed so that the long dimension is perpendicular or diagonal to the dominant direction of travel (**Figure 32-8**). Exception: openings are permitted to run parallel to the direction of travel so long as the opening is no wider than 1/4".

99AG-16.3.3

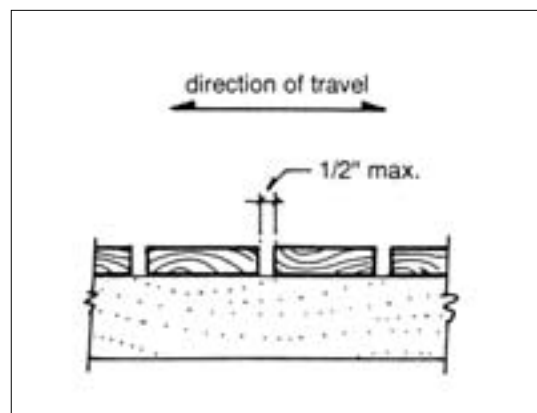


Figure 32-8

Routes of Travel

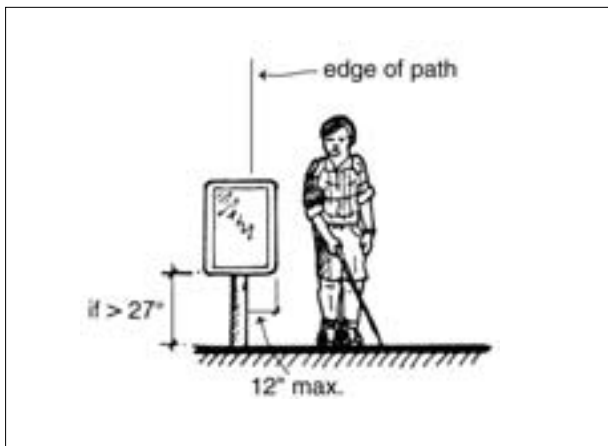


Figure 32-9

2. Objects that protrude into the route with their leading edge between 27" and 80" from the ground, such as a telephone, shall not protrude more than 4" (**Figure 32-5**). Objects mounted below 27" may protrude any amount but shall not reduce the clear width of the accessible route (**Figure 32-9**).

99AG-16.3.4/ADAAG-4.4.1

3. Vertical clearance shall be 80". If the vertical clearance of an area adjoining the accessible route is less than 80", a cane detectable barrier to warn the visually impaired shall be provided (**Figure 32-6**).

99AG-16.3.4/ADAAG-4.4.2

4. Tread obstacles, such as roots or rocks, shall not be higher than 1". Exception: obstacles may be up to 2" high if they are beveled at 50% or if environmental conditions prohibit their removal.

99AG-16.3.5

5. Where the width of the route is less than 60", passing spaces measuring 60" x 60" shall be provided at intervals of 200'.

99AG-16.3.6

6. Where edge protection is provided, it shall have a height of 3" minimum.

99AG-16.3.9

Service Machines

I. CONCEPT

A. Where walk-up service machines (including ATM's, ticket, point of sale machines or lockers) are provided, they shall be accessibly designed, be on an accessible route of travel, have accessible clear floor space and follow accessible reach ranges.

B. All new service machines shall be accessible in accordance with ABA and ADA Accessibility Guidelines for Buildings and Facilities and the California Code of Regulations, Title 24. (Contact the Accessibility Section.)

II. LOCATION

A. Service machines shall be located on an accessible route of travel. (*Refer to Buildings, Section 7; Routes of Travel, Section 32*).

ADAAG-5.8

B. One full, unobstructed side of the service machine must adjoin or overlap an accessible route or another clear space.

CBC-1118B.4.2

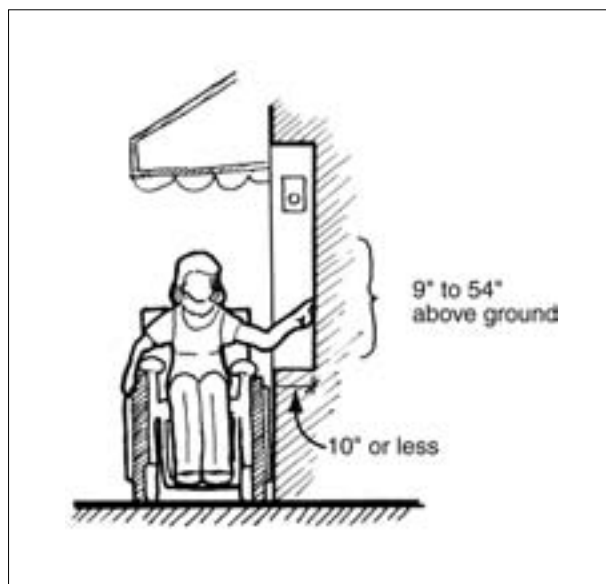


Figure 33-1

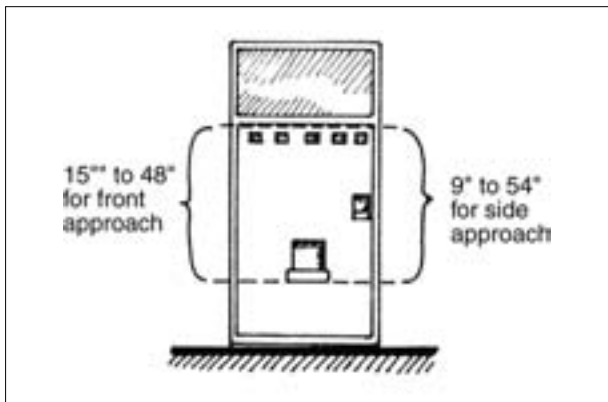


Figure 33-2

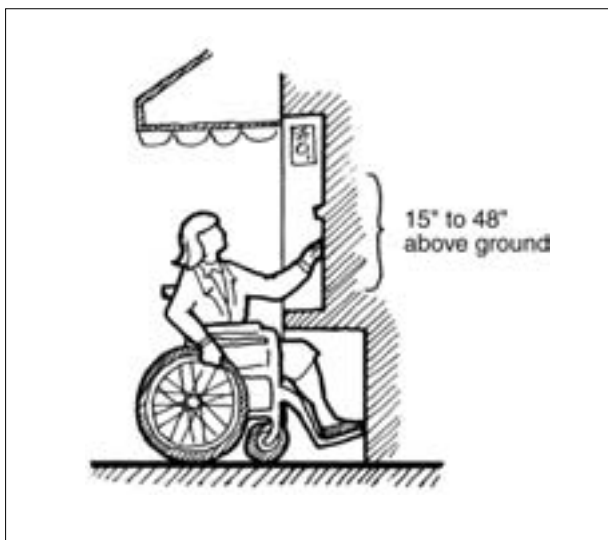


Figure 33-3

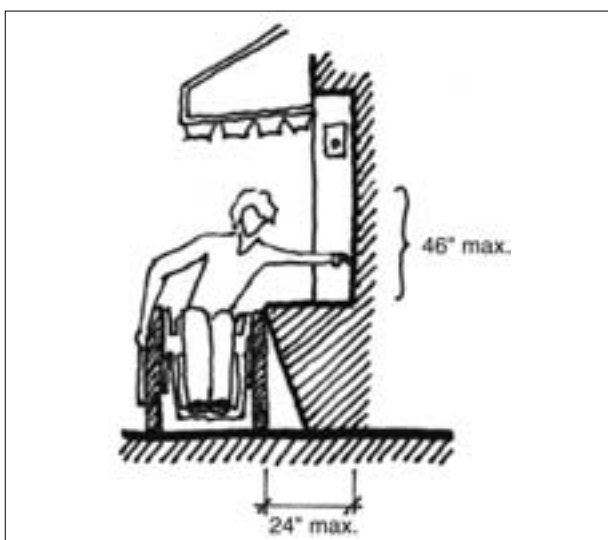


Figure 33-4

III. REACH

A. In an unobstructed side reach, the control height shall be between 9" and 54". The reach depth shall be 10" or less (**Figure 33-1 & 33-2**).

CBC-1117B.7.4.1.3.1

B. In an unobstructed forward reach, the height of the controls shall be between 15" and 48". The reach depth shall be 10" or less (**Figure 33-2 & 33-3**).

CBC-1117B.6.3/CBC-1118B.5

C. If the forward reach over an obstruction is more than 20" deep, the maximum height of the controls should be 44" (**Figure 33-4**).

CBC-1117B.6.3/CBC-1118B.5

D. If the side reach over an obstruction is no higher than 34" and is 24" deep, the maximum height of the controls shall be 46" (**Figure 33-4**).

CBC-1118B.6

Signage

I. CONCEPT

This section refers to permanent signs.

A. An effective information system is essential for accessibility. There are three general categories of signage.

1. Location or directional information: All information that indicates direction or location, including signs along outdoor routes indicating direction and distances (e.g. 1.5 miles to waterfall).
 - a. Trailhead signage should describe conditions such as average grade, cross slope, width of trail, trail surface and average size of obstacles.
2. Identification and description information: Identifies a specific facility, such as an information station or a restroom, describes the availability and location of facilities. This identity and

description information must meet Title 24 and ADA standards for permanent signs.

3. Regulation and safety signage: Information about rules, procedures and regulations (e.g. restrictive signs such as “NO FISHING, NO CAMPING or NO SMOKING ON TRAIL;” regulatory signs such as “CAMP IN DESIGNATED AREAS ONLY”; and safety signs such as “UNSAFE DRINKING WATER”).

II. SIGNAGE

A. Signs should be part of a well-planned system throughout a park or recreational area.

B. Signs must be placed in logical and visually unobstructed locations, while ensuring that growth of adjacent foliage will not interfere with visibility.

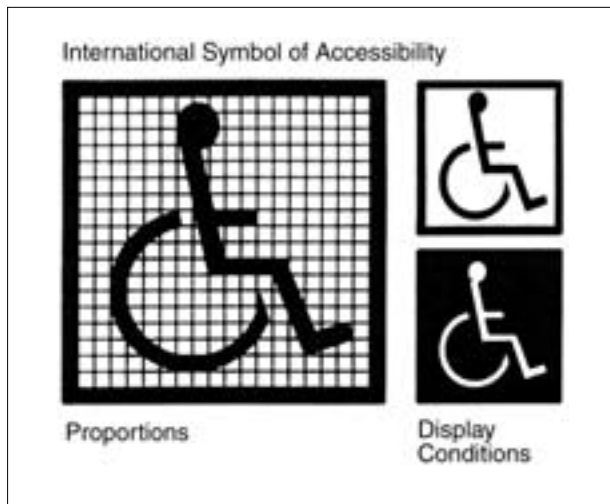


Figure 34-1

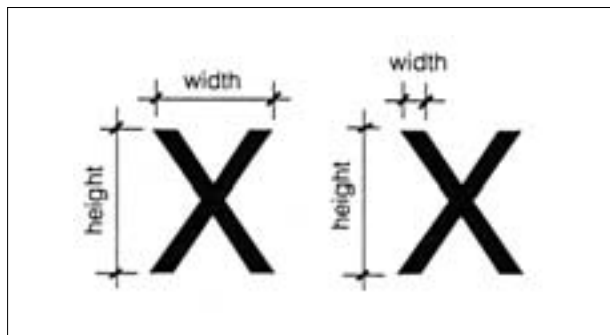


Figure 34-2

Height to Finish Floor or Ground from Baseline of Character	Horizontal Viewing Distance	Minimum Character Height
40" to less than or equal to 70"	less than 72"	$\frac{5}{8}$ "
	72" & greater	$\frac{5}{8}$ " plus $\frac{1}{8}$ " per foot of viewing distance above 72"
Greater than 70" to less than or equal to 120"	less than 180"	2 inches
	180" & greater	2", plus $\frac{1}{8}$ " per foot of viewing distance above 180"
greater than 120"	less than 21 feet	3 inches
	21 feet & greater	3", plus $\frac{1}{8}$ " per foot of viewing distance above 21 feet

Figure 34-3

C. The International Symbol of Accessibility (ISA) sign shall be located at the primary entrance and at junctions between accessible and inaccessible pathways. The sign shall be displayed to direct the user to an accessible route (**Figure 34-1**).

CBC-1127B.3

D. All characters, symbols and sign backgrounds must have a non-glare finish with at least a 70% contrast between characters and their backgrounds, either light characters on a dark background or dark characters on a light background. All signs shall have letters and numbers with the ratio of letter width to height of between 3:5 to 1:1, and the stroke width to height ratio of between 1:5 to 1:10 (**Figure 34-2**).

CBC-1117B.5.2-3

E. Characters and numbers shall be sized according to the viewing distance from which they will be read. See visual character height table (**Figure 34-3**) for various viewing distances. Both upper case and lower case letters should be used, but font size is measured using an upper case X (**Figure 34-2**). For signs suspended or projected above the finish floor on posts or supports at a height where the bottom edge of the sign is 80" or more above the floor, the minimum character height shall be 3".

ADAAG 703.5.5 /CBC-1117B.5.4

F. Signs identifying permanent uses of rooms and spaces shall have raised letters at a minimum $\frac{1}{32}$ ", raised characters at a minimum $\frac{5}{8}$ " to a maximum 2" (**Figure 34-4**), sans serif, uppercase and contracted Grade II Braille, mounted on the latch side of any doors at 60" above the floor to the centerline of the sign. Signs must be approachable to within 3" without obstruction (**Figure 34-5**).

CBC-1117B.5.6-9

G. Pictograms must be accompanied by the equivalent verbal description placed below in raised letters and Grade II Braille when used in a permanently signed room or space.

CBC-1117B.5.6.3

H. Signage containing pictograms should have 6" borders. The International Symbol of Accessibility (ISA) circles and triangles on restroom doors are not considered pictograms.

CBC-1117B.5.6.3

I. Buildings that have been remodeled to provide accessible restrooms and/or elevators shall post this information in the building lobby.

CBC-1117B.5.8

J. The use of alternative signage forms such as remote directional human voice messages may be explored and used subject to consent of the Accessibility Section.

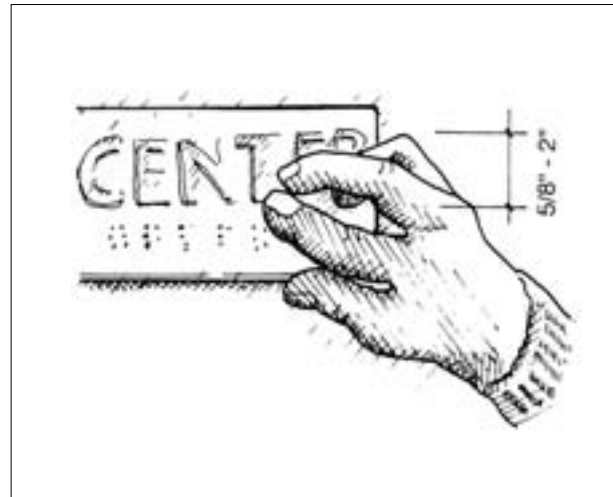


Figure 34-4



Figure 34-5

Sinks

I. CONCEPT

A. This section contains the accessibility requirements for sinks other than lavatories or those found in restrooms. These types of sinks include sinks in picnic and campground areas and sinks for utility purposes, such as washing or cleaning fish. For full requirements for lavatories, please *refer to Restrooms, Section 31*.

II. CLEARANCES

A. The rim of the sink should be 34" or less above the floor (**Figure 35-1**).

ADAAG-4.24.2

B. Except for utility sinks, there must be a clearance of at least 27" from the floor to the bottom of the sink apron, with a knee clearance under the front lip extending a minimum 30" in width, with a 19" minimum depth underneath the sink (**Figure 35-1**).

ADAAG-4.24.3

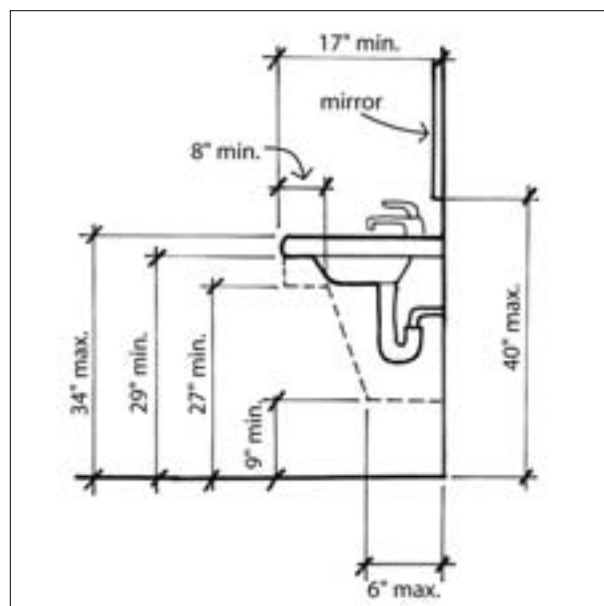


Figure 35-1

C. Except for utility sinks, there must be a 30" x 48" clear floor space provided in front of the sink to allow for a forward approach.

ADAAG-4.24.5

D. The clear floor space must be on an accessible route and must extend a maximum of 19" underneath the sink.

ADAAG-4.24.5

Sinks

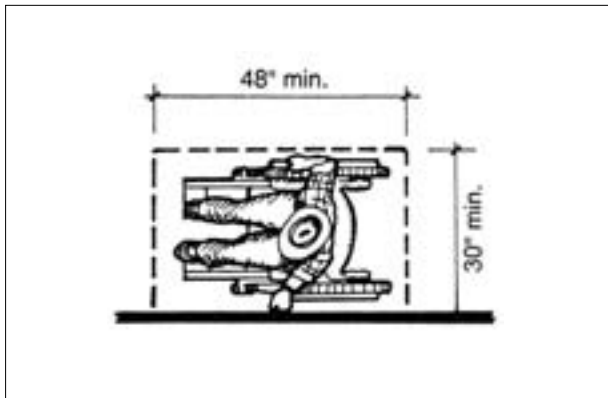


Figure 35-2

III. DETAILS

A. Except for utility sinks, the bowl of the sink must be a maximum 6 1/2" deep.

ADAAG-4.24.2

B. Exposed hot water lines and drain-pipes shall be out of the way or insulated. There shall be no sharp or abrasive surfaces under the sink.

ADAAG-4.24.6/CPC-1504.2.2

C. Faucet and other controls must be operable with one hand and not require tight grasping or twisting of the wrist. The force required to activate controls shall be 5 lbs. maximum. Lever, push type and electronically controlled mechanisms are acceptable.

CBC-1115B.2.1.2.1

D. If self-closing faucets are provided, they must stay on at least 10 seconds.

CPC-1508.1-2

IV. UTILITY SINKS (DEEP)

A. A clear floor space of 30" x 48" has to be provided in front of the sink to allow for a parallel approach (with a side reach) (**Figure 35-2**).

99AG-16.13.2

B. The clear space in front of the sink shall have a slope no greater than 2% (3% if necessary for proper drainage).

99AG-16.13.3

C. The bottom of the bowl must be a minimum 15" above the floor.

99AG-16.13.6

D. Counter or rim of the sink must be 34" or less above the floor.

99AG-16.13.5

E. The surface of the clear space must be stable and firm.

99AG-16.13.4

F. If utility sinks are provided, at least 5%, but no less than 1, must be accessible.

99AG-16.13.1

Special Events

I. CONCEPT

A. For accessibility purposes, these guidelines generally refer to events open to the public, not to private events for specific invited groups only. At private events, it is the park's responsibility to provide accessible parking, building entry, restrooms and other supporting facilities, where possible. If requested, special accommodation may be needed.

B. Special events often require park staff to allow the public into areas that normally receive little use or that may not be equipped for large groups. Prior to the special event, these areas must be evaluated for accessibility.

C. All event facilities must generally be accessible. An outline is provided below.

D. Private vendors need to be reminded of their responsibilities to provide accessible exhibits, aisles, sales counters, etc.

II. OUTLINE OF ACCESSIBILITY GUIDELINES

A. Event Publications (*Refer to Publications, Section 29.*)

1. All advance publications must list a phone number for those in need of special accommodation.
2. All proposed park event hand-outs, brochures, maps, etc. must be reviewed for legibility by the Accessibility Section at least two weeks before the scheduled printing date.
3. Alternative format versions must be available or able to be provided if requested (large print, transcripts, diskettes, etc.).

B. Parking (*Refer to Parking, Section 26.*)

1. When parking is provided, accessible parking, including temporary event parking, shall be provided at legally defined ratios of accessible and van accessible spaces per total spaces provided.

CBC-1129B.1

2. Proper slopes, surfaces, routes of travel and signage with the International Symbol of Accessibility (ISA) must be provided for accessible parking.

C. Restrooms (*Refer to Portable Toilets, Section 28, and Restrooms, Section 33.*)

1. In each location where portable restrooms are added, at least one shall be accessible. When portables are added in groups of 10 or more to one location, at least two shall be accessible.
2. Routes to and from restrooms shall be accessible.

CBC-1141B.1.2

D. Assembly Areas (*Refer to Campfire Centers/Assembly Areas, Section 8.*)

1. If requested in advance, an American Sign Language (ASL) interpreter must be hired to be

present during presentations.

2. In general, if oral presentations are a significant part of the program, an ASL interpreter is recommended.

3. Assembly areas must have appropriate ratios of total seats to wheelchair spaces with companion seating. Wheelchair spaces shall measure at least 30" x 60".

ADAAG-4.1.3(19)(a)/CBC-1104B.3.4.1

4. If there are more than 300 seats total, wheelchair spaces must be dispersed in several locations, including shaded locations.

ADAAG-4.3/CBC-1104B.1.4.2

5. Receivers for assistive listening systems shall be provided at a rate of 4 percent of the total number of seats, but not less than two receivers.

6. Stages and routes to them shall be accessible.

CBC-1104B.3.10-11

E. Exhibits/Visitor Information (*Refer to Audio-Visual Exhibits, Section 18, and Visitor Information/Sales Areas, Section 41.*)

1. Park event exhibits must be accessibly designed and located.
2. Sales counters and reach ranges shall be accessible.

F. Drinking Fountains (*Refer to Drinking Fountains, Section 16*)

1. If more than one additional drinking fountain is provided, at least 50% of added fountains shall be accessibly designed and located.

ADAAG-4.1.3(10)

III. REFERENCES

A. For additional information, refer to the California Department of Parks and Recreation Qualified Sign Language Interpreters Policy (DN2004-7) and “All Visitors Welcome – Accessibility in Interpretive Programs and Facilities,” a California State Parks publication.

B. Please see the Special Events checklist in the Appendix and use it as you begin to plan your special event.

Stairs

I. CONCEPT

A. Where stairs are provided, in addition to required elevators, lifts or ramps, they shall be on the building/facility route of travel and shall meet the following guidelines.

II. TREADS AND RISERS

A. The heights and widths of the treads and risers shall be uniform. Stair treads shall be no less than 11" wide measured from riser to riser (**Figure 37-1**).

CBC-1133B.4.5.3

B. Stair treads must be self-draining and of a slip-resistant material.

ADAAG-4.9.6/CBC-1133B.4.5.1

C. Open risers are not allowed.

CBC-1133B.4.5.3

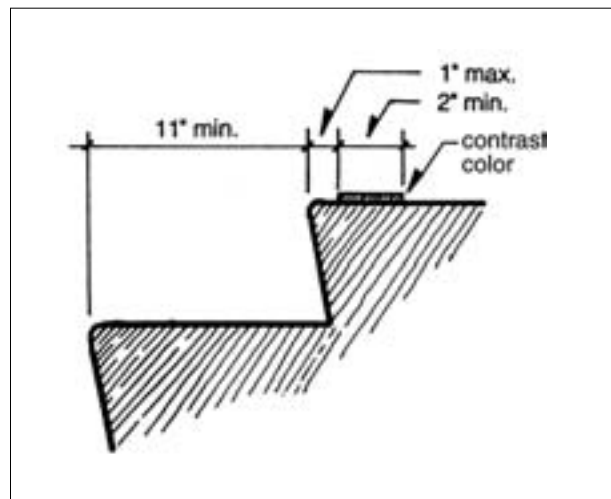


Figure 37-1

D. Nosings must be projected, but not more than 1 1/2" past the face of the riser below. Nosings shall be rounded at a maximum radius of 1/2" (**Figure 37-2**).

ADAAG-4.9.3/CBC-1133B.4.5.2

Stairs

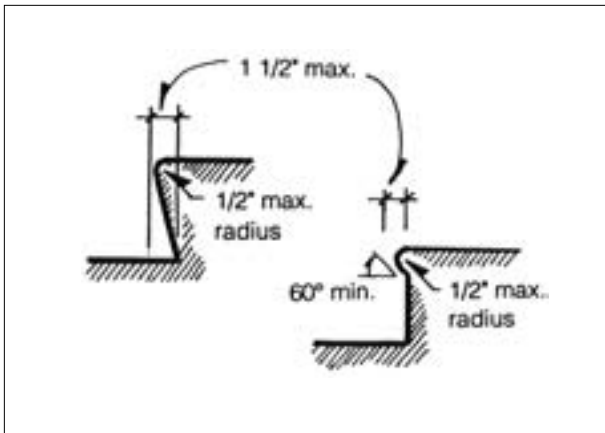


Figure 37-2

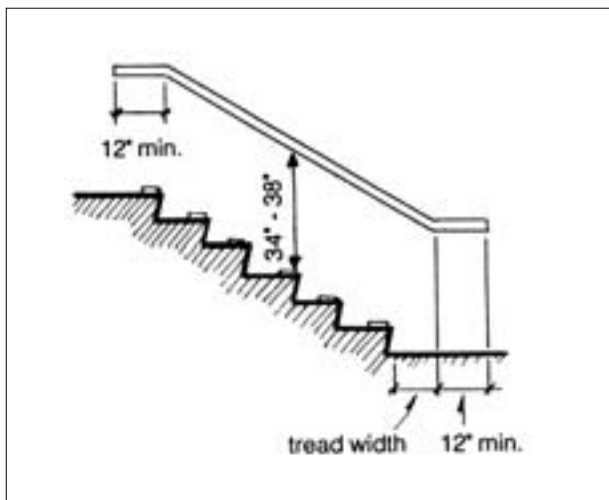


Figure 37-3

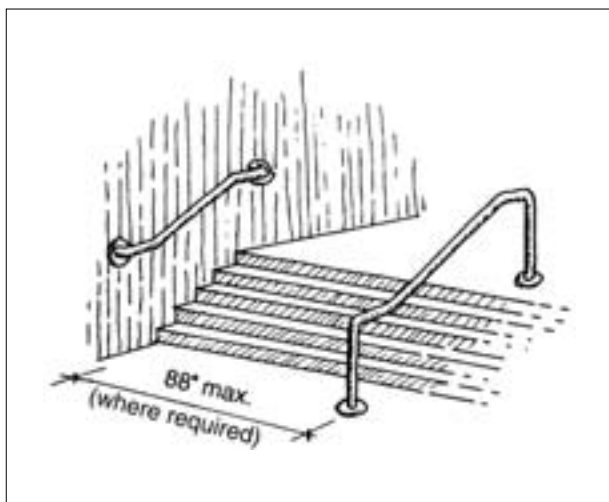


Figure 37-4

E. When stairs occur outside a building, the upper approach and all treads shall be marked by a strip of clear contrasting color at least 2" wide and placed parallel to and not more than 1" from the nose of the step or landing to alert the visually impaired. Interior stairs shall have contrasting color on the upper approach and the lower tread of each stair (**Figure 37-1**).

CBC-1133B.4.4

F. The strip shall be parallel to and not more than 1" from the nose of the step or landing to alert the visually impaired (**Figure 37-1**).

CBC-1133B.4.4

G. The striping material shall be slip resistant.

CBC-1133B.4.4

H. The California Building Code Section 1033.3.3 shall govern the width of stair used for a primary exit way.

III. HANDRAILS (SEE DRAWINGS)

A. Handrails shall be provided on both sides of stairs and extend parallel to the floor 12" beyond the upper riser and 12" plus one tread width beyond the lower riser (**Figure 37-3**).

ADAAG-4.9.4(2)/CBC-1133B.4.2.2

B. All ends shall be returned (no abrupt ends).

ADAAG-4.9.4(6)/CBC-1133B.4.2.3

C. Where required for exiting, stairs wider than 88" shall have an intermediate railing at a maximum interval of 88" (**Figure 37-4**).

CBC-1133B.4.1.1

D. Handrails shall be 34" to 38" above the nosing of the treads (**Figure 37-3**).

CBC-1133B.4.2.1

E. Railings shall be securely mounted, not rotate in their fittings, and be mounted to leave a space of 1 1/2" between the wall and the inside edge of the railing (**Figure 37-5**).

CBC-1133B.4.2.5

F. Railings shall have a diameter or width between 1 1/4" and 1 1/2" (**Figure 37-5**).

CBC-1133B.4.2.6.1

G. If railings are recessed into an adjacent surface, the recess must be at least 18" higher than the top of the railing and a maximum of 3" deep (**Figure 37-5**).

CBC-1133B.4.2.5

H. Railings shall have a smooth surface with no sharp corners. Edges shall have a minimum radius of 1/8".

CBC-1133B.4.2.6.1

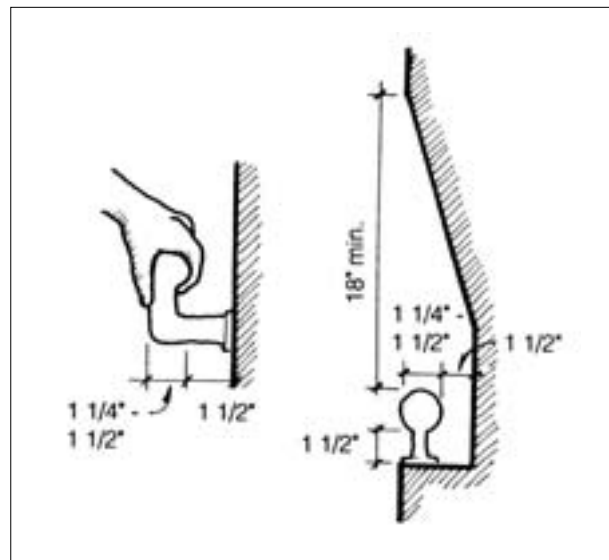


Figure 37-5

I. Gripping surfaces shall be uninterrupted by newel posts, other construction elements or obstructions.

CBC-1133B.4.2.6.1

J. On stairs that switch back at intermediate landings, the interior railings shall be continuous around the turn and not extend out into the intermediate landing.

CBC-1133B.4.2.4

K. Handrails shall support 250 lbs. of pressure in all directions.

ADAAG-4.26.3.2-4

IV. STAIRWAY IDENTIFICATION

A. In buildings two or more floors in height with enclosed stairways, a sign shall be located at each floor indicating the floor level.

CBC-1133B.4.3

B. The sign shall be located 60" above the floor in a readily available, visible location. Sign information shall be presented in raised Arabic numerals and contracted Grade II Braille.

CBC-1133B.4.3

C. At exit discharge level, the sign shall include a raised five pointed star located to the left of the floor level, same height as raised numerals.

Storage Areas/Lockers

I. CONCEPT

A. At least one of each type of storage facility (cabinets, shelves, closets, drawers, etc.) provided shall be accessible.

CBC-1125B.1

B. Where locker rooms provide dressing areas, see section 15, Dressing Rooms.

II. DOORWAYS

A. The entrance door to the storage areas (except shallow closets) shall have a minimum width opening of 32".

CBC-1110B.2.2

B. Shallow (not walk-in) closet storage areas shall have a minimum 20" door opening.

ADAAG-4.13.5

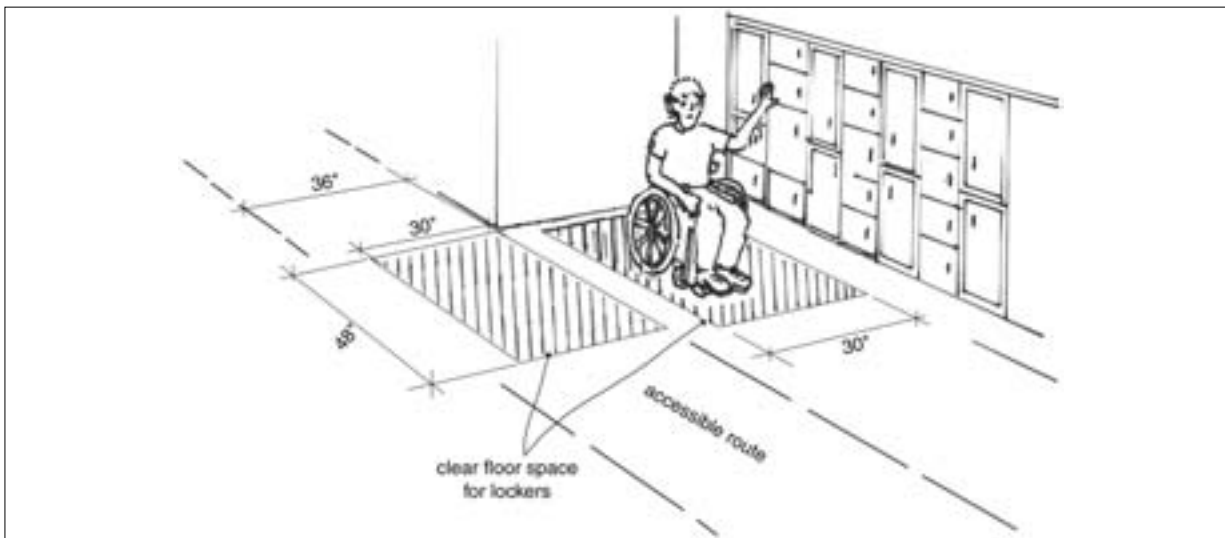


Figure 38-1

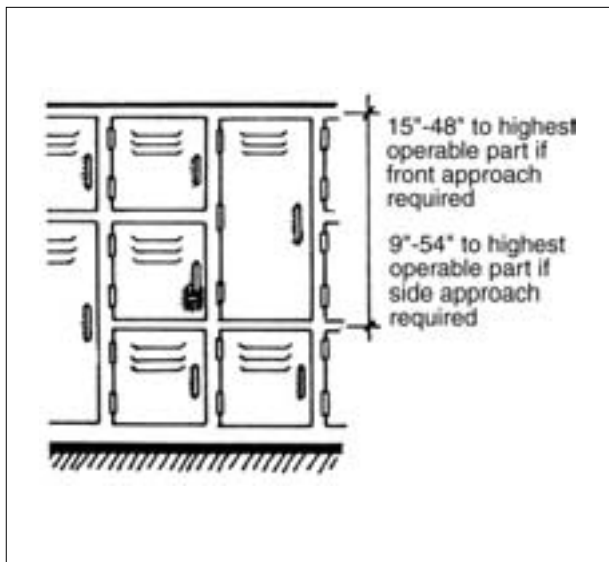


Figure 38-2

III. APPROACH SPACE

- A.** Clear space immediately adjacent to the storage area/locker shall be a minimum of 30" x 48" (Figure 38-1).

CBC-1125B.2

- B.** One full, unobstructed closet side shall adjoin or overlap an accessible route or another clear space.

CBC-1118B.4.2

- C.** Storage areas located in an alcove or confined on all, or part of, 3 sides shall have additional maneuvering clearances provided.

CBC-1118B.4.2

IV. REACHES

- A.** Side accessible storage areas and lockers positioned between 9" and 54" from the floor shall have a maximum 10" horizontal reach over an obstruction (24" maximum reach if the height does not exceed 46") (Figure 38-2).

CBC-1125B.3

- B.** Front accessible storage areas and lockers positioned between 15" and 48" from the floor shall have a maximum 20" horizontal reach over an obstruction (25" maximum reach if the maximum height does not exceed 44") (Figure 38-2).

CBC-1118B.5

- C.** Hardware shall be operable with one hand without tight grasping, pinching or twisting of the wrist and with a force no greater than 5 lbs. Touch latches and u-shaped pulls are acceptable.

CBC-1125B.4

- D.** Lockers and storage facilities that contain accessibility features shall be identified with the ISA.

Swimming Pools

I. CONCEPT

A. Access to swimming is dependent on getting to the pool area and getting into and out of the water.

B. Swimming pool deck areas must be accessible, and an assistive device must be provided to assist persons with disabilities in gaining entry into the pool.

C. There shall be an unobstructed path of travel from accessible parking to the swimming pool. *Refer to Buildings, Section 7 and/or Routes of Travel, Section 32.*

ADAAG-4.3/CBC-1114B.1.2

D. Pool gates shall meet the requirements of *Doorways, Section 13*.

II. SAFETY FEATURES

A. Float dividers, colors, textures and pavement markings should be used to clearly indicate increasing water depth.

B. Colors and textures that contrast with the adjoining walking surface should be used to clearly indicate pool and ramp edges and other high-risk areas.

C. Paving shall be non-slip and non-abrasive to bare feet.

CBC-3113B.1

D. Edges of the pool coping should be rounded $\frac{3}{4}$ " to $1\frac{1}{2}$ " radius.

E. There shall be a minimum 48" wide unobstructed path of travel around the pool.

CBC-3113B.1

Swimming Pools

III. POOL ACCESS

A. At least two means of entry and exit shall be provided for each swimming pool. The primary means of access shall be a ramp (sloped entry) or lift (**Figure 39-1**).

ADAAG-15.8.2

B. The secondary means of access shall not duplicate the primary means but may be transfer walls, transfer systems or stairs.

ADAAG-15.8.2

C. Swimming pools with a perimeter less than 300 linear feet will have one means of access, which must either be a lift or a ramp (sloped entry).

ADAAG-15.8.2

IV. RAMPS (SLOPED ENTRIES)

A. Ramp access into the water shall be an accessible route.

ADAAG-15.8.5.1

B. Ramps into swimming pools shall meet the following criteria:

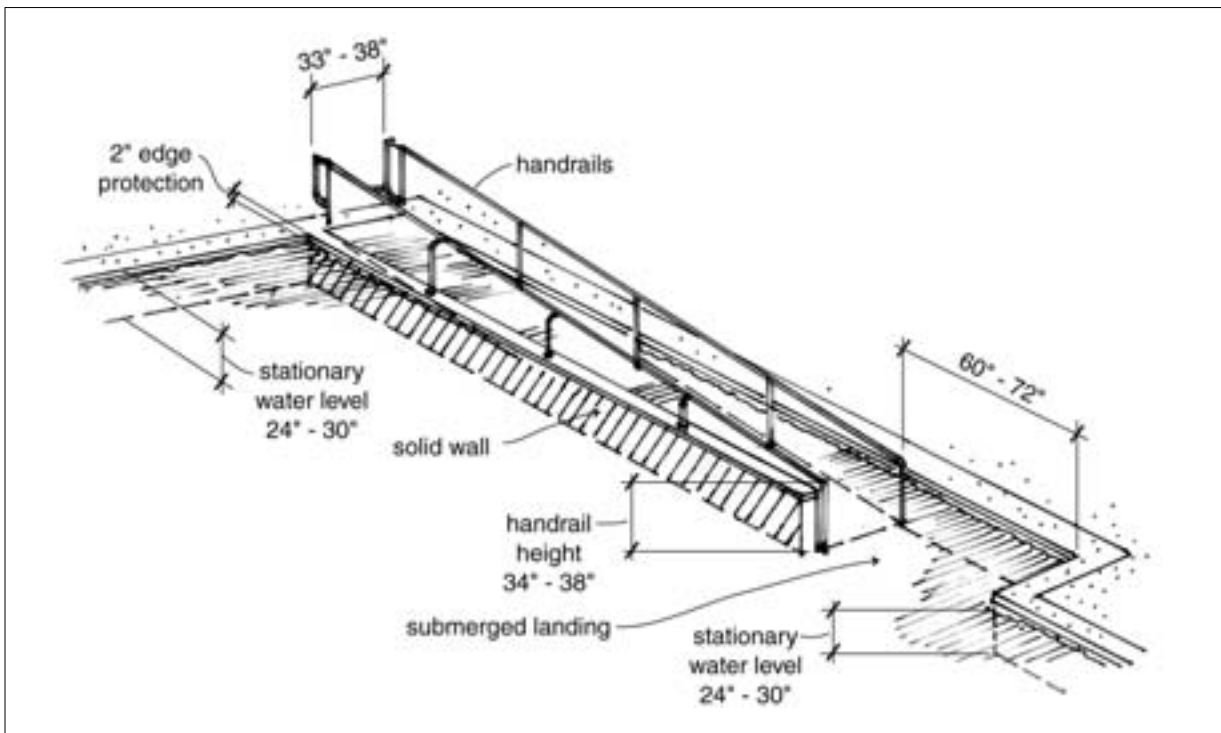


Figure 39-1

1. Ramps shall meet the requirements of ADAAG-4.8 when sloped entry exceeds 5%. The following modifications will be used:

- a. Ramps shall extend to a depth of 24" minimum to 30" maximum below the stationary water level.
- b. There shall also be at least one landing located 24" minimum to 30" maximum below the stationary water level. (*Refer to Ramps, Section 30.*)

ADAAG-15.8.5.2

2. Handrails are required on all sloped entries.

ADAAG-15.8.5.3

3. The clear width between handrails must be between 33" and 38".

ADAAG-15.8.5.3

V. BENCHES

- A. *Refer to Fixed Benches, Section 20.*

VI. STEPS

- A. Pool stairs shall comply with ADAAG-4.9. (*Refer to Stairs, Section 37.*)

ADAAG-15.8.8.1-2

- B. Handrails shall comply with ADAAG-15.8.8.2.

- C. Stair striping in a contrasting color is required on all new pool stairs.

VII. ADDITIONAL CRITERIA

- A. If showers, lockers, drinking fountains or towel racks are provided, refer to Bathing, Storage Areas, Drinking Fountains or Buildings (reaches) sections.

VIII. POOL LIFTS

- A. Swimming pool areas must be accessible and a mechanism to assist persons with disabilities in gaining unassisted operation entry into the pool and exiting from the pool shall be provided.

Swimming Pools

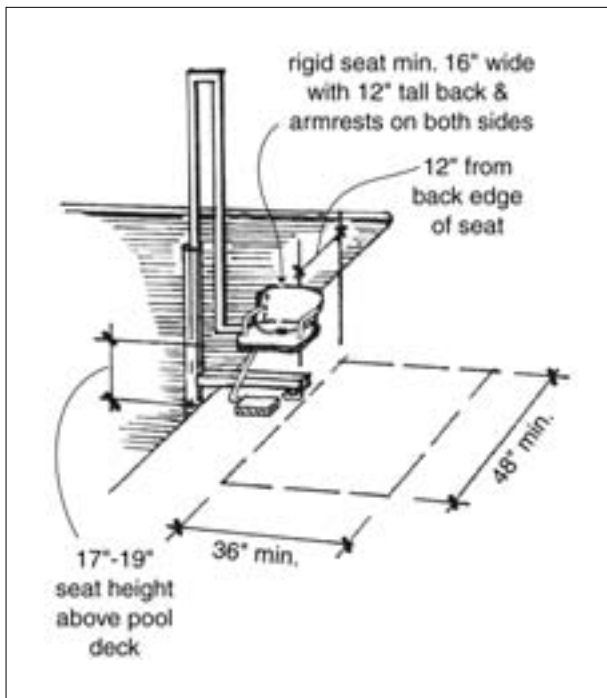


Figure 39-2

Such a mechanism may consist of a swimming pool lift device as long as pool lifts meet the following criteria: The seat of the lift has the following specifications:

1. The seat must be rigid (**Figure 39-2**).

CBC-1104B.4.3

2. The seat must have a back support that is 12" tall (**Figure 39-2**).

CBC-1104.B.4.3

3. The lift seat shall be a minimum of 16" wide (**Figure 39-2**).

ADAAG-15.8.4.4

4. The seat must have two armrests. The armrest on the side of the seat by which access is gained shall be either removable or fold clear of the seat. Armrests shall not obstruct with the transfer.

CBC-1104.B.4.3/ADAAG-15.8.4.5

5. Footrests shall be provided and move in conjunction with the seat (**Figure 39-2**).

ADAAG-15.8.5.6

6. The seat must have an occupant restraint for use by the occupant of the seat that meets the standards for operable controls in compliance with CBC-1117B.6-4 (**Figure 39-2**).

7. Seat must be stable and not permit unintended movement when a person is getting into or out of the seat.

CBC-1104.B.4.3

B. The location of the seat/lift has the following specifications:

1. Lift shall be positioned so that if the pool has water of different depths, it will place the operator into water that is at least 3' below the surface of the water but not deeper than 48".

CBC-1104B.4.3

2. In the raised position, the center-line of the lift seat must be located over the pool deck, at least 16" minimum from the edge of the pool.

ADAAG-15.8.5.2

3. A minimum clear deck space shall be on the side of the seat opposite the water. The space is measured from the seat. It shall be a minimum of 36" wide and 48" long from a line located 12" behind the rear edge of the seat. The space shall be clear and free of deck braces that can interfere with the transfer (**Figure 39-2**).

ADAAG-15.8.5.3

4. The height of the lift seat shall be not less than 16" and no more than 19" inclusive of any cushioned surface that might be provided above the pool deck. The height is to be measured from the deck to the top of the seat surface when the seat is in the raised (loaded) position. An adjustable seat may be used (**Figure 39-2**).

ADAAG-15.8.5.4

- C. Pool lifts shall be capable of unassisted operation from both the deck and water levels.

ADAAG-15.8.5.7

1. Controls shall be unobstructed when a lift is in use.

ADAAG-15.8.5.7

2. Controls shall not require tight grasping, pinching or twisting of the wrist and no more than 5 lbs. of pressure to operate.

ADAAG-4.27.4

3. Pool lift seats shall submerge to a water depth of 18" minimum (**Figure 39-3**).

ADAAG-15.8.5.8

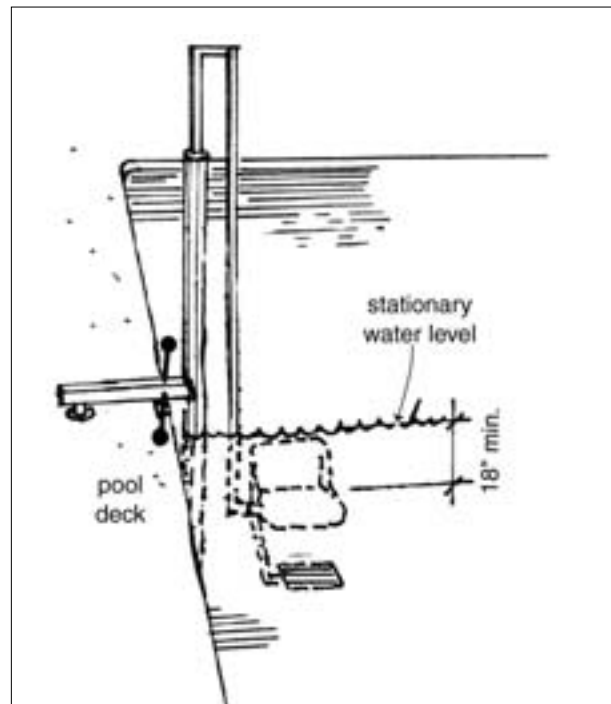


Figure 39-3

Swimming Pools

4. Single pool lifts shall provide a minimum live-load weight capacity of no less than 300 lbs. Lifts shall also be capable of sustaining a static load of at least 3 times the rated load.

ADAAG-15.8.5.9

1. Extensions are required at the top but not the bottom.
2. Clear width between handrails must be between 33" and 38".
3. Handrail height must be between 34" and 38".

IX. SLOPED ENTRIES

A. Sloped entries must comply with ADAAG accessible route provisions (36" wide, maximum 8.33% slope) except the surface does not need to be slip resistant.

ADAAG-15.8.6

B. Sloped entries must extend to a depth between 24" and 30" maximum below the stationary water level.

ADAAG-15.8.6.2

C. Sloped entry requires a landing at both the top and bottom if running slope is greater than 1:20 (5%).

ADAAG-15.8.6.2

D. Landings must be 36" minimum in width and 60" in length. 72" is preferred.

ADAAG-9.8.4

E. Sloped entries must have handrails on both sides regardless of slope. Handrails shall meet ADAAG provisions plus the following:

X. ACCESSIBLE POOL STAIRS

A. All stairs shall have uniform riser heights and uniform tread widths of not less than 11", measured from riser to riser.

ADAAG-15.8.9

B. Open risers are not permitted.

C. Pool stairs must have handrails with a width of 20" to 24" between rails.

D. The top of the handrail gripping surface must be 34" to 38" above the stair nosing.

E. The clear space between the handrail and wall must be 1 1/2".

Trails

I. CONCEPT

A. Unlike Exterior Routes of Travel (ERT) and Outdoor Recreation Access Routes (ORAR), trails provide the means for the activity of hiking. Trails provide access to remote locations and unique park features; they offer visitors the opportunity to experience various environmental settings.

B. Wherever hiking is considered one of the primary activities offered, or where there is a large concentration of trails, every effort should be made to install and maintain accessible trails. The accessible trails should represent the most significant features and environmental experiences unique to the area.

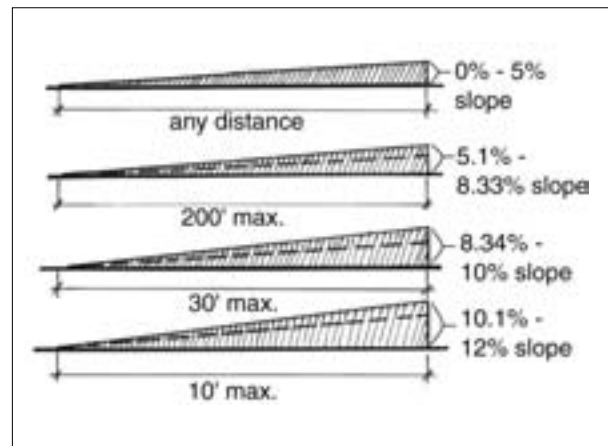


Figure 40-1

a. 5% or less for any distance.

99AG-16.2.7.2.1

b. From 5.1% to 8.33% for 200' maximum.

99AG-16.2.7.2.2

c. From 8.34% to 10% for 30' maximum.

99AG-16.2.7.2.3

II. SAFETY FEATURES

A. General

1. Running slopes in the direction of travel shall be as follows (**Figure 40-1**):

Trails

- d. From 10% to 12% for 10' maximum.

99AG-16.2.7.2.4

2. Resting spaces shall be 60" minimum in length, shall have a width at least as wide as the trail and have a slope of 5% or less. The installation of resting spaces is required as follows:

99AG-16.2.8

Percent slope	Max. length	Rest interval
0% to 5.0%	No restriction	No restriction
5.1% to 8.33%	200'	Every 200'
8.34% to 10%	30'	Every 30'
10.1% to 12%	10'	Every 10'

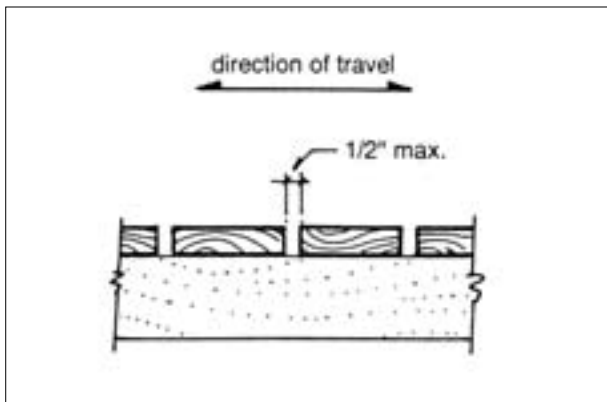


Figure 40-2

3. The slope perpendicular to the direction of travel, cross slope, shall be 5% maximum.

99AG-16.2.7.1/Exception: See Section B, Details for slope requirements at open drainage structures.

4. The clear tread width shall be 36", except the width may be reduced to 32" where existing conditions cannot be mitigated.

99AG-16.2.2

5. The surface of the trail shall be stable and firm.

99AG-16.2.1

B. Details

1. Openings in the surface, such as on a boardwalk, shall not be greater than 1/2" wide. Elongated openings shall be placed so that the long dimension is perpendicular or diagonal to the dominant direction of travel (**Figure 40-2**). Exception: openings are permitted to run parallel to the direction of travel so long as the opening is no wider than 1/4".

99AG-16.2.3

2. Objects that protrude into the trail between 27" and 80" from the ground shall not protrude more than 4". Objects mounted below 27" may protrude any amount but shall not reduce the clear width of the trail (**Figure 40-3**).

99AG-16.2.4

3. Vertical clearance shall be 80". If the 80" vertical clearance of the trail cannot be mitigated, a cane detectable barrier to warn the visually impaired shall be provided (**Figure 40-3**).

99AG-16.2.4

4. For open drainage structures a running slope of 14% is permitted for 5' maximum with a cross slope of 5% maximum. Cross slope is permitted to be 10% at the bottom of the open drain where the clear tread width is at least 42" wide.

99AG-16.2.7

5. Tread obstacles, such as roots or rocks, shall not be higher than 2". Exception: obstacles may be up to 3" high where the running slope and cross slope are 5% or less.

99AG-16.2.5

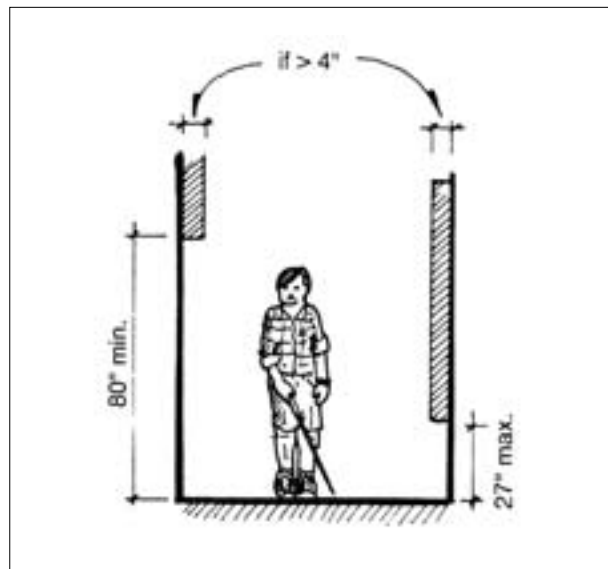


Figure 40-3

6. Where the width of the trail is less than 60", passing spaces measuring 60" x 60" shall be provided at intervals of 1000'.

99AG-16.2.6

7. Where edge protection is provided, it shall have a height of 3" minimum.

99AG-16.2.9

8. Trails that meet the above guidelines shall be designated with a symbol at the trailhead and at designated access points. Signage shall indicate the total distance of the accessible segment and the location of the first point of departure from the guidelines.

99AG-16.2.10

9. Signage at trailheads shall be accessible to users with vision impairments (*Refer to Audio-Visual Programs, Section 3, and Signage, Section 34.*)

natural or cultural resources of the area. Educational nature trails also contain a series of informational panels or signs and often a printed informational brochure.

B. Educational nature trails which meet federal accessible guidelines shall be made accessible to the blind by the provisions of raised edging along at least one side of the trail, distinctive tactile surface textures to call attention to informational displays, panels or signs, raised Arabic numerals and symbols for identification, and related guide and assistance devices.

C. *Refer to Exhibits, Section 18, for informational and display panel requirements.*

III. EDUCATIONAL NATURE TRAILS

A. An educational nature trail is a trail in which the designated use is pedestrian only and is planned for the primary purpose of educating the public on the

Visitor Information/ Sales Area

I. CONCEPT

A. Information stations are primarily located at entrance stations, visitor centers and campground facilities. Visitor information areas shall provide auxiliary aids to ensure effective communication to the public. Auxiliary aids and alternate form means:

1. Verbal/auditory information is available in written form.
2. Visual/graphic information is available in audio form and in large print form.
3. Information should be posted if a TTY (teletypewriter) or hearing aid-compatible telephone is available.
4. Signage posted indicating the availability of ALDs.

II. COUNTERS AND SALES AREAS

A. Counters/sales areas must be on an accessible route of travel. (*Refer to Buildings, Section 7.*)

B. Information counters/sales areas shall have a portion of the counter surface accessible to persons who use wheelchairs. Sales areas shall be signed with the International Symbol of Accessibility (ISA).

CBC-1110B.1.3-4

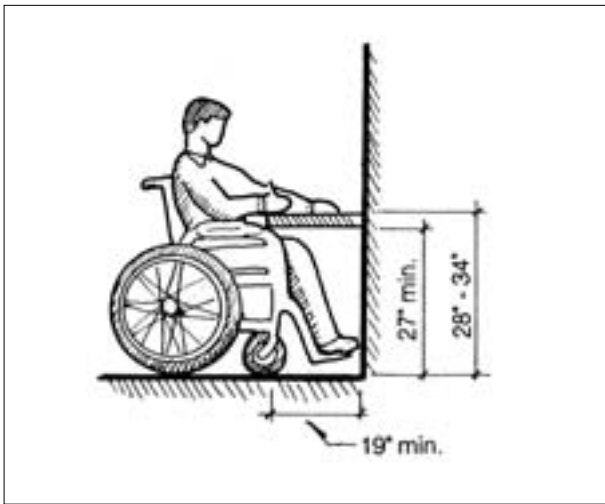


Figure 41-1

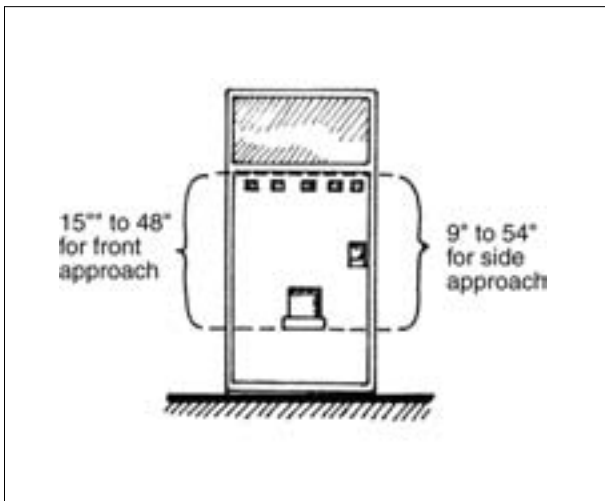


Figure 41-2

C. Such space shall be a minimum of 3 linear feet for every 12 linear feet, or fraction thereof, of counter length. This section of the counter shall be at least 36" wide and 28" to 34" high from the finished floor elevation (**Figure 41-1**).

CBC-1122B.4

D. This space shall have a 19" minimum deep toe/knee recess space, with 27" minimum vertical clearance from the floor surface (**Figure 41-1**).

CBC-1122B.3

E. Merchandise and sales items must be placed between 9" and 54" for a side approach and between 15" and 48" for a front approach. (**Figure 41-2**).

CBC-1118B.5-6

F. Maximum side reach over an obstruction shall not exceed 24".

CBC-1118B.6

III. CHECKOUT AREA

A. At least one, but never less than 25%, of all service counters with cash registers shall be made accessible by providing a 36" checkout aisle or space on the customer side of the service counter.

CBC-1110B.1.3

IV. POINT OF SALE MACHINES

A. If provided, all point of sale machines, except drive-up, shall meet current accessibility requirements. *(Refer to Service Machines, Section 33.)*

V. TURNSTILES

A. *Refer to Doorways, Section 13.*

VI. SITE INFORMATION

A. The International Symbol of Accessibility (ISA) shall be the standard used to identify facilities that are accessible.

CBC-1117B.5.1.1

Vista Points/Overlooks

I. CONCEPT

A. Vista points, roadside pullouts/overlooks, their features, views and experiences they provide, must be accessible.

99AG-16.10.1

B. Where multiple viewing areas are provided, a minimum of one of each viewing opportunity for each distinct point of interest shall be accessible.

99AG-16.10.1

C. Vista points and overlooks shall be located on an accessible route of travel, including an Outdoor Recreation Access Route (ORAR) or accessible trail.

99AG-16.10.1

II. VIEWING AREA

A. The viewing area shall have at least one maneuvering space of 60" x 60" or a T-shaped space at least 36" wide and 60" long on each leg (**Figures 42-1 & 42-2**).

99AG-16.10.2/ADAAG-4.2.3

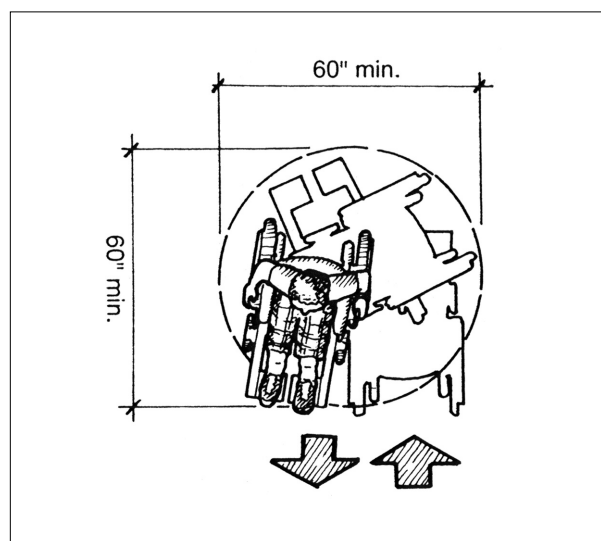


Figure 42-1

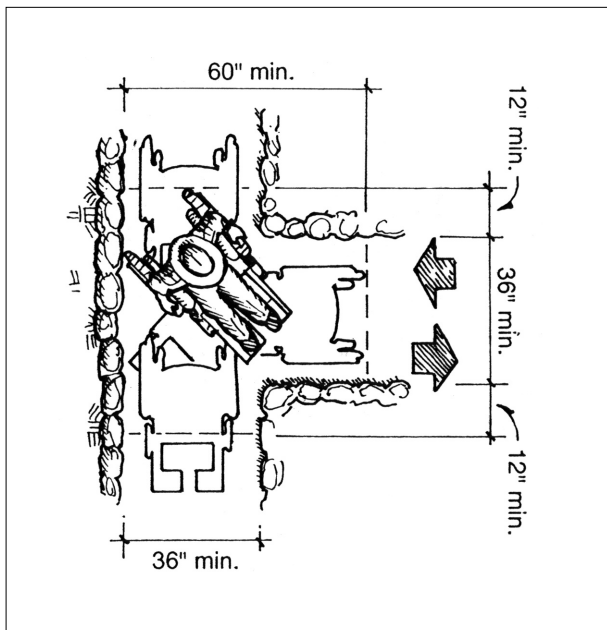


Figure 42-2

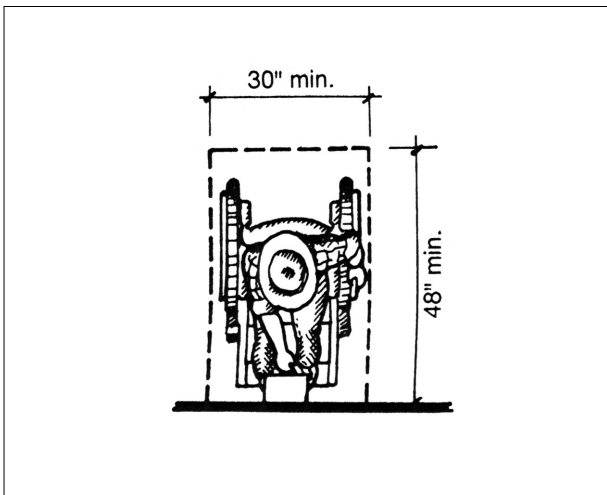


Figure 42-3

B. The maneuvering space shall be firm, stable and shall not exceed a 2% slope in any direction.

99AG-16.10.4-5

C. Each distinct viewing opportunity shall allow unrestricted viewing to accommodate eye levels between 32" and 51".

99AG-16.10.3

D. Where descriptive signs are provided at Vista Points, these signs shall be provided in raised lettering and Braille so as to be accessible to users with vision impairments.

E. Where feasible, provide audible versions of exhibit information, when exhibits are newly designed or redesigned.

III. FIXED VIEWING DEVICES

A. Where telescopes or periscopes are provided in an area, at least 20%, but never less than one, shall be accessible.

99AG-16.11.1

B. Where only one telescope or periscope is provided it must be useable from a seated and standing position.

99AG-16.11.1.1

C. Within the vista point or viewing area accessible telescopes/periscopes shall be connected by an Outdoor Recreation Access Route (ORAR).

99AG-16.11.1.1

D. A stable and firm clear space measuring 30" x 48" shall be provided in front of the accessible telescope/periscope to allow for a forward or parallel approach (Figures 42-3 & 42-4).

99AG-16.11.2-3

E. The slope of the clear space shall not exceed 2%.

99AG-16.11.5

F. The eyepiece of accessible telescopes/periscopes shall be useable from the seated position.

99AG-16.11.3

G. The force required to activate the controls shall not be greater than 5 lbs. of pressure.

99AG-16.11.2/ADAAG-4.27.4

H. The operating controls shall be operable with one hand and shall not require tight grasping, pinching or twisting of the wrist.

99AG-16.11.2/ADAAG-4.27.4

I. The operating controls shall be located between 15" and 48" for a forward approach and between 9" and 54" for a parallel approach (Figures 42-5 & 42-6).

99AG-16.11.2/ADAAG-4.27.3

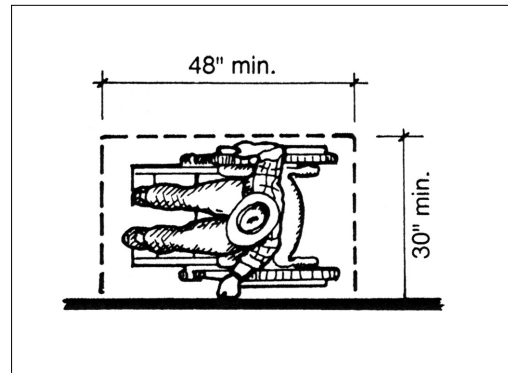


Figure 42-4

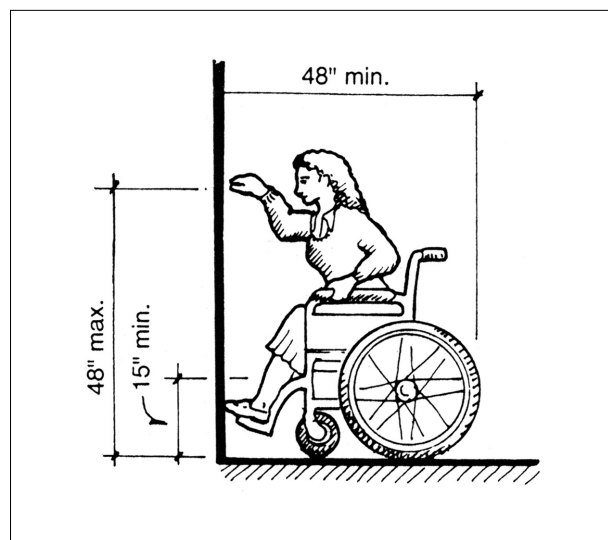


Figure 42-5

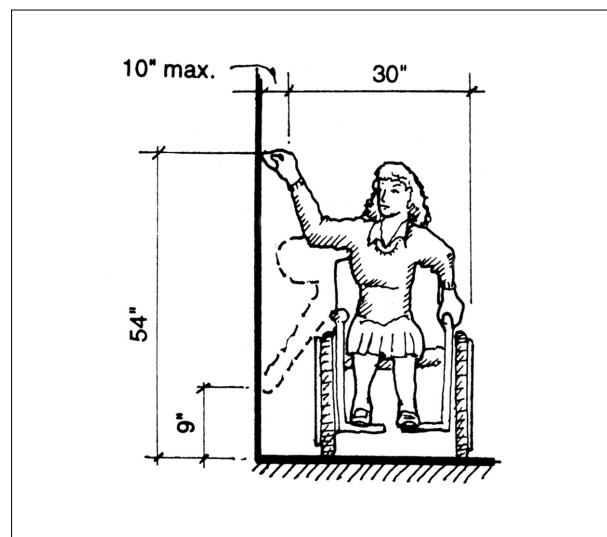


Figure 42-6

Work Areas

I. CONCEPT

A. Work areas shall be accessible in newly constructed and remodeled facilities. Reasonable accommodations shall be made for individuals with disabilities. Contact the Human Rights Office for work related accommodation issues.

II. DIMENSIONS

A. The height of work surfaces shall be between 28" and 34" above the floor.

CBC-1122B.4

B. There shall be a minimum knee space of 27" high, 19" deep and 30" wide provided under the bottom of the work surface.

CBC-1122B.3

C. Individual workstations shall be located on an accessible route. The accessible route shall extend to and through the workstation.

Glossary

Access Networks A series of accessible, interdependent, related facilities, programs and activities with a continuous path of travel that connects these facilities, programs and activities.

Accessible Admission, passage, circulation, and full use of buildings, facilities, programs, and the various elements within or the combination of them, to persons with disabilities.

Accessible Route A continuous unobstructed path connecting all accessible elements and spaces of a building or facility.

Alcove A small recessed opening off of a larger space.

Alteration Alter or alteration is any change addition or modification in construction or occupancy or structural repair or change in primary function to an existing structure other than repair

or addition. Modification made to an existing building or facility that goes beyond normal maintenance activities and affects or could affect usability.

American Sign Language (ASL) The sign language used in the United States. Language expressed by visible hand gestures.

Americans with Disabilities Act of 1990 (ADA) A Federal law prohibiting discrimination against people with disabilities.

Americans with Disabilities Act Accessibility Guidelines (ADAAG) Provides scoping and technical specifications for new constructions and alterations undertaken by entities covered by the ADA.

Architectural Barriers Act of 1968 (ABA) A Federal law stating that buildings and facilities designed,

constructed or altered with Federal funds, or leased by a Federal agency, must comply with standards for physical accessibility.

Assembly Areas A room or space accommodating a group for recreational, educational, political, social, civic or amusement purposes.

Assistive Device A device that assists users in accomplishing day-to-day functions (e.g. a wheelchair is an assistive device to assist a person who cannot walk).

Assistive Listening Device A device used by an individual to amplify an audio presentation.

Audible Warning A warning consisting of words or sounds indicating a potentially hazardous situation.

Audio Description (also audio-described video, tour, or exhibit) Audio description refers to a specialized type of audio presentation that includes brief explanations of visual items necessary for comprehending content to those who are unable to see them. In a video, audio description may explain movements or appearances of persons or objects, unexplained sounds, facial or body gestures, scene or setting changes, etc. For tours or exhibits, audio description would provide con-

cise, objective, vivid descriptions, of objects, graphics or other visual elements of the program. Audio description may be delivered by FM receivers, audiotapes, MP3 players, CD's or (for tours and exhibits) by trained staff and volunteers.

Barrier to Access Any condition that makes it difficult to make progress or to achieve an objective.

Barrier Removal Removal, rearrangement or modification of objects or built elements positioned or structured in a manner that impedes access.

Bevel Two surfaces meeting at an angle less than 90°.

Braille A system of writing, composed of raised dots in different patterns, that represents letters and numbers read with the fingertips by people who are blind. Grade II Braille is the most commonly used in North America. The following dimensions are required: 1/10" between each dot within a cell, measured from the dot centers. 2/10" is required between each cell within a word. Measurement is from the center of the dots in the second column of the first cell to the center of the dots in the first column of the next cell. Dots must be a minimum 1/40" high at the apex. (CBC-1117.B.5.6) The word "Accessible" in braille follows:



Buildings Any and all portions of permanent structures occurring on or in support of a state park unit, including concession buildings, dispatch areas, dormitories, employee housing, entrance kiosks/stations, first aid stations, janitorial rooms, kiosks, laboratories, museums, offices, restrooms, storage areas, theaters and visitor centers.

California Relay Service The service provided for persons with hearing impairments to relay between audio phone calls and text telephone systems.

Captioned Captions consist of a text transcript of the auditory track of the movie, or other video presentation, that is synchronized with the video and auditory tracks. Captions are generally rendered graphically and benefit people who can see but cannot hear the audio.

Clear Floor Space The minimum unobstructed floor space required to accommodate a single, stationary wheelchair and occupant.

Clear Tread Width The width of the useable surface measured perpendicular to the direction of travel.

Core Area The area with the greatest concentration of pedestrian traffic

(including persons who use wheelchairs), amenities, services and facilities.

Cross Slope The slope measured perpendicular to the direction of travel.

dbA Decibel, increments in which sound is measured.

Designated Beach Developed beach day use areas with on-site facilities and services that provide public safety.

Detectable Warnings A standardized surface feature of raised domes applied to walking surfaces to warn visually impaired people of hazards.

Disability An individual is defined as having a disability when one or more of the following conditions apply: (1) a physical or mental impairment that limits one or more of the major life activities of an individual, or (2) a record of such an impairment, or (3) being regarded as having such an impairment.

Edge Protection A curb or wheel-guide rail used to protect an area having a hazardous drop-off.

Egress, Means of A continuous and unobstructed way of exit travel from any point in a building or facility to a public way. An accessible means of

Glossary

egress is one that complies with these guidelines and does not include stairs, steps or escalators.

Element An architectural or mechanical component of a building, facility, space or site (e.g.: telephone, curb ramp, door, drinking fountain, seating or water closet).

Elevation The distance of something above a reference point

Exterior Route of Travel (ERT) An outdoor path of travel connecting major components of facilities (i.e. parking lot to a building).

Facility All or any portion of buildings, structures, site improvements, complexes, equipment, roads, walks, passageways, or parking lots located on a site.

Firm Surface An outdoor surface resisting indentation from a walking person's foot or wheelchair.

Foot Candles (light level) A unit of illuminance on a surface from a point source of 1 candle, used to measure light intensity.

Gangway A moving structure spanning between land and a floating structure.

Grade The slope parallel to the direction of travel that is calculated by dividing the vertical change in elevation by the horizontal distance covered.

Horizontal Circulation Space A minimum 60" wide circular space directly in front of an exhibit allowing all visitors the same opportunity to approach, turn and leave the exhibit.

International Symbol of Accessibility (ISA) The symbol adopted by Rehabilitation International for the purpose of indicating facilities that are accessible to persons with disabilities. It is sometimes called the wheelchair symbol in legislation.



Landing A platform between elevation changes in a route of travel (often used when stairs change direction). Normally no less than 36" x 36" square.

Level Area A surface that does not have a slope in any direction exceeding 2% (1:50) gradient.

Newel The post at the top or bottom of a flight of stairs that supports the handrail.

Obstacle An object that protrudes into the circulation route, limits the vertical passage space, or reduces the clearance width of a pathway. On trails, obstacles can include objects such as boulders and tree branches.

Optimal Field of Vision The most comfortable cone or field of vision appropriate for signs, displays and exhibits covers an arc of approximately 45°, from 15° above the horizontal eye to 30° below it. This applies to both the standing and seated person.

Outdoor Recreation Access Route (ORAR) A continuous unobstructed path designated for pedestrian use that connects accessible elements within a picnic area, camping area or designated trailhead.

Point Load The ability of an object to withstand a certain weight at one point.

Prevailing Sound Level The ambient, or background, sound level that audible alarms must exceed.

Protruding Object Something that juts out or projects into a pathway and may cause injury or block access.

Qualified Sign Language Interpreter An interpreter who is able to interpret effectively, accurately, and impartially both receptively and expressively, using

any necessary specialized vocabulary. (QSLI Policy)

Radiating Sound Wave The sign identifying accessible public telephones with volume control and hearing aid compatibility.



Ramp A firm, inclined surface used to provide connection between elevation changes.

Reach Ranges The distance limits that allow wheelchair users to access facilities and devices (i.e. electrical switches and alarms).

Reasonable Accommodation Modifications or adjustments to a program, work environment or job description that make it easier for a person with a disability to participate in the same manner as other employees.

Rest Area A level portion of a trail that is wide enough to provide wheelchair users and others a place to rest and gain relief from the prevailing grade and cross slope demands of the path.

Riser The vertical portion of a step in a staircase that connects the top of a tread to the next higher tread.

Glossary

Sans Serif A typeface in which characters have no serifs.

Serif A short line at the ends of the main strokes of a character, which may lead the eye through text, or may make letters run together.

Slip Resistant Surface Slip resistance is based on the frictional force necessary to permit a person to ambulate without slipping. A slip resistant surface does not allow a shoe heel, wheelchair tires or a crutch tip to slip when ambulating on the surface.

Stable Surface Stability is the degree to which a surface remains unchanged by contaminants or applied force, so that when the contaminant or force is removed, the surface returns to its original condition. A stable surface is not significantly altered by a person walking or maneuvering a wheelchair.

Stanchion An upright bar, post or support.

Strike Edge Clearance The clearance from the strike edge of a door to the first protrusion or obstruction.

Tactile An object that can be perceived using the sense of touch.

Teletypewriter (TTY) Equipment that employs interactive text based commu-

nications through the transmission of coded signals across the standard telephone network. Text telephones can include, for example, devices known as TDDs (telecommunication display devices or telecommunication devices for deaf persons) or computers with special modems. Text telephones are also called TTYs, an abbreviation for tele-typewriter.

Title II of the Americans with Disabilities Act of 1990 The section of the Americans with Disabilities Act of 1990 that prohibits state and local governments from discriminating against people with disabilities in programs, services and activities.

Title 24 A section of the California Code of Regulations, also known as the California Building Code, that, in part, addresses accessibility in buildings and facilities.

Trail A route that is designed, designated or constructed for recreational pedestrian use or provided as a pedestrian alternative to vehicular routes within a transportation system.

Transcript A “transcript” is a text representation of sounds in an audio clip or an auditory track of a multimedia presentation. A “collated text transcript” for a video combines (collates) caption text with text descriptions of video information (descriptions of the actions, body

language, graphics and scene changes of the visual track). Collated text transcripts are essential for individuals who are deaf-blind and rely on Braille for access to movies and other content.

Tread Surface The surface of a pathway or upper horizontal part of a step.

Truncated Domes Small domes with truncated, or cut-off, tops that are detectable warnings used at transit platforms, curb ramps and hazardous vehicular ways.

Universal Design The designing of products and environments to be usable by all people, to the greatest extent possible, regardless of age, size or abilities.

Unloading Aisle The zone adjacent to an accessible parking stall for passenger loading and unloading.

Utility Sink A sink that has a vertical dimension deeper within the confines of the sink than the standard lavatory basin and allows the user of a picnic area or campground setting to clean large pots or equipment. It has the general configuration of a sink found in a custodial maintenance area.

Wing Wall A wall protrusion at a right angle to another wall.

Zero Depth Entry Water entry starting level with dry land and gradually sloping into water.

Appendix

Accessibility Checklist for Special Events

This document is intended to facilitate planning an accessible Special Event. It is especially directed toward park sponsored special programs to which the general public is invited. For private events such as weddings, special accommodations may be necessary.

Event coordinators should review the Sections on Special Events and all of the areas listed in headings below for more detail. Please feel free to call the Accessibility Section at (916) 445-8949.

1. Event Publications

- ☐ Do advance publications include phone numbers for individuals requesting special accommodation?
- ☐ Do advance publications describe any special qualifications required of participants? (ability to traverse 3 miles of rough terrain, climb 112 stairs, etc.)
- ☐ Have hand-outs, maps, brochures, etc., for the public been reviewed for legibility by the Accessibility Section a minimum of two weeks before scheduled printing date?
- ☐ Are large print or other alternative format versions (transcripts, diskettes, audio) available or can they be provided if requested?

2. Exhibits

- ☐ Have private vendors been provided with at least this checklist on accessibility requirements for exhibits/routes of travel/sales areas?
- ☐ Have park exhibit plans been reviewed for font, color, size, etc., and approved by the Accessibility Section two weeks prior to event?

3. Parking

- ☐ Are proposed additional parking areas on accessible routes?
- ☐ For parking spaces, including added spaces, the following minimum numbers of designated accessible and van accessible spaces apply:

TOTAL SPACES PROVIDED	TOTAL ACCESSIBLE SPACES REQUIRED	# OF VAN ACCESSIBLE SPACES (VAS) INCLUDED
1-25	1	1
26-50	2	1
51-75	3	1
76-100	4	1
101-150	5	1
151-200	6	1
201-300	7	1
301-400	8	1
401-500	9	2
501-1000	2% of total	3

Accessibility Checklist for Special Events

4. Visitor Information/Sales Areas

- ☐ Do at least 25% of all checkout areas have aisles at least 36" wide?
- ☐ Are counter tops between 28" and 34" high?
- ☐ Are front reaches (to brochures, souvenirs, books, etc.) between 15" and 48" and side reaches between 9" and 54"?
- ☐ If these standards can't be met, is a sign posted stating, "If you need assistance, please ask"?

5. Restrooms

- ☐ If added for the event, is there at least one accessible portable restroom at each location?
- ☐ If portables are provided in groups of ten or more at a location, are there at least two portables for every ten units?

6. Routes of Travel

- ☐ Are intended routes of travel through the event, exhibits, parking, restrooms, food booths, etc., firm and stable and sloped no more than 5%?
- ☐ Have obstructions or uneven surface elements (roots, bumps, pavement rises, or gaps) been eliminated or mitigated?

7. Assembly Areas

- ☐ If requested, or if a significant part of the event is a group presentation, will a Certified American Sign Language Interpreter be provided?

Assembly/presentation area seating requirements are:

SEATS	WHEELCHAIR SPACES WITH COMPANION SEATING
1-25	1
26-50	2
51-300	4
301-500	6
over 500	6 + 1 per hundred

- ☐ If there are more than 300 seats, are the wheelchair spaces dispersed in different locations (including shaded locations)?
- ☐ Are provided wheelchair seating areas a minimum of 30"x 60"?
- ☐ Are stages and paths of travel to them accessible?
- ☐ Are assistive listening devices available?

Remember to review relevant Sections in the current "California State Parks Accessibility Guidelines."

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